



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Carolyn Miter Albaugh Inc. P.O. Box 2127 Valdosta, GA 31604-2127

JUN - 2 2014

Subject:

Notification: Per PR-Notice 2007-4

Product Name: Clethodim 2E EPA Reg. No. 42750-72 Decision Number: 480537

Dear_Ms.-Miter:-

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated June 27, 2013 for the product referenced above. The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions regarding this letter, please contact Jasmine Branch at (703) 347-0351 or branch.jasmine@epa.gov.

Sincerely,

Kathryn Montague

Product Manager 23

Herbicide Branch

Registration Division (7505P)

Please read instructions on reve	rse before com	'ng form.		Form Ap	proved	MB No.	2070-006	D. Approval expires 2-28-9
\$EPA ■	nvironmenta	nited States I Protecti ngton, DC 20	•		✓	Registr Amend Other		OPP Identifier Number
		Applicati	on for Pestici	de - Sec	tion			
1. Company/Product Number 42750-72			. !	Product Man	ager		3. Pr	oposed Classification None
4. Company/Product (Name) Clethodim 2E			PM# 23					, nostroite
5. Name and Address of Applic Albaugh, Inc. P.O. Box 2127 Valdosta, GA 31604 Check if this is		de)	(b)(i), r to: EPA (ny product	is sim	ilar or ider	ntical in co	FIFRA Section 3(c)(3) mposition and labeling
			Section -	11 .				
Amendment - Explain be Resubmission in respons Notification - Explain be	se to Agency letter	dated		Final printe Agency lett "Me Too" /	ter date Applica	ed ition.	NOTI	FICATION -2 2014
Notification of label change per l regulations at 40 CFR §§ 156.10 Formula for this product. I under amended label is not consistent FIFRA and I may be subject to e), 156.140, 156.144, stand that it is a viol with the requiremen	156.146, and ation of 18 U.s ts of 40 CFR §	156.156. No other d S.C. Sec. 1001 to will § 156.10, 156.140,	nanges have I fully make an I56,144, 156. I 14 of FIFRA	been m y false 146, an	nade to the li statement to	abeling or the EPA. I furth	e Confidential Statement of her understand that if the
1. Material This Product Will Be	Packaged in:							
Child-Resistant Packaging U	nit Packaging Yes No "Yes" nit Packaging wgt.	No. per container	Water Soluble F Yes √ No If "Yes" Package wgt	No. per containe		2. Type o	f Container Metal Plastic Glass Paper Other (S	pecify)
3. Location of Net Contents Info	ormation	4. Size(s) Re	tail Container	_ l	5. Loc	cation of La	bel Directio	ns
✓ Label Cont 6. Manner in Which Label is Aff	ainer ixed to Product	Litho	1 gal, 2.5 gal graph glued illed	Othe	'	Attache	ed to contai	cere
		Stelle	Section - I	v				6666
Contact Point Complete itel	ns directly below f	or identification			if nece	essary, to p	rocess this	epplicationS
Name Carolyn Miter			Title Registrations Sp				T. C.C.	No. (Include Area Code)
I certify that the statement I acknowledge that any k both under applicable law	nowlinglly false or		l all attachments th				omplete.	6. Lete Application Received (Stamped)
2. Signature Carolyn /	Mite		3. Title Registrations Spec	cialist	,			((((((((((((((((((((
4. Typed Name	l'		5. Date					,

Carolyn Miter

June 27, 2013

ALBAUGH, INC.

GEORGIA OFFICE P.O. Box 2127 Valdosta, GA 31604-2127 229.244.3288 (Phone) 229.244.5841 (FAX)

Fed-Ex

June 27, 2013

Document Processing Desk (NOTIFY)
Ms. Kathryn Montague (PM 23)
Registration Division (7504P)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard (South Bldg)
2777 South Crystal Dr.
Arlington, VA 22202

Re:

Clethodim 2E

EPA Reg. No. 42750-72

Dear Ms. Montague,

The enclosed submission for the above referenced product is a proposed label notification in response to PR Notice 2007-4 for the container disposal update. Please find copies of our label with the changes noted in bold. Also enclosed is Form 8570-1.

Should you have any questions or comments, please do not hesitate to contact me.

Sincerely,

Carolyn Miter

Registrations Specialist

Albaugh, Inc.

P. O. Box 2127

Valdosta, GA 31604

229-244-3288

carolynm@albaughinc.com

CLETHODIM 2E

Contains Petroleum Distillates

*(E)-2-[1-[[(3-chloro-2-propenyl)oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

CLETHODIM 2E contains 2.0 lbs. clethodim per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

	FIRST AID
IF IN EYES:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN	Take off contaminated clothing.
-OR	Rinse skin immediately with plenty of water for 15-20 minutes.
CLOTHING:	Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	 Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
IF INHALED:	 Move person to fresh air If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
	HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN - Contains petroleum distillate - vomiting may cause aspiration pneumonia

See inside label booklet for additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 42750-72

NET CONTENTS: 1 gallon

EPA Est. No. xxxxxx-xxxxx

MANUFACTURED BY: Albaugh, Inc.

NOTIFICATION

JUN -2 2014

Ankeny, IA 50021

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category G on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton > 14 mils
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist.

Solano Grass: Solano County, California: the vernal lakes area bounded by the ປຼົກເວົ້າ Pacific Railroad and Hastings Road to the North, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west.

Wild Rice: Hays County, Texas.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as Barrier Laminate or Viton > 14 mils
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place in original container.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or approved waste disposal facility.

CONTAINER DISPOSAL:

Non-refillable containers (< 5 gallons): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

<u>Refillable container</u>: (bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinseate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

TANK MIXES

Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

CHEMIGATION

May be applied to onions and garlic by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or to this crop using any other type of irrigation system.

PRODUCT INFORMATION

CLETHODIM 2E is for use on:

Alfalfa, Artichoke (Globe), Asparagus, Bean and Pea (dry)¹, Bean and Pea (succulent)², Broccoli, Bushberry³, Cabbage, Caneberry⁴, Canola*; Carrot, Cauliflower (and other Head and Stem Brassica Vegetables)⁵, Celery, Clover (grown in Idaho, Oregon and Washington only), Conifer, Cotton, Cranberry, Cucumber, Eggplants (and other Fruiting Vegetables)⁶, Fallow Land (and other non-producing agricultural areas), Flax*, Field Corn³, Garden Beet, Garlic, Herbs³, Hops, Horseradish (and other Root Vegetables)⁶; Legume Vegetables (edible podded)¹⁰, Lettuce, Head and Leaf (and other leafy greens)¹², Melons (including Cantaloupes and Watermelons)¹², Mint, Mustard Greens (and other Leafy Brassica Greens)¹³, Mustard Seed*, Non-Bearing Food Crops, Non-Crop or Non-Planted Areas, Onions (dry bulbs and green), Ornamentals, Feaches,

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Peanuts (including perennial), Peppers (bell and non-bell), Potato, Radish, Rhubarb (and other Leaf Petioles)¹⁴, Safflower, Sesame, Shallots (dry bulbs and green), Soybeans, Squash (including Pumpkins), Strawberry, Sugar Beet, Sunflower, Sweet Potato, Tomato, and Yam (and other Tuberous and Corm Vegetables)¹⁵

* Not for use in California

- 1. Other Dry Shelled Bean and Pea crops approved for use with CLETHODIM 2E include: Bean (*Lupinus* spp.), grain, sweet, white and white sweet; Bean (*Phaseolus* spp.), field, kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki bean, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, broad (dry), chickpea (garbanzo), guar, lablab bean and lentil; Pea (*Pisum* spp.), field and pigeon
- 2. Other Succulent Bean and Pea crops approved for use with CLETHODIM 2E includes: Bean (*Lupinus* spp.), grain, sweet, white and white and white sweet; Bean (*Phaseolus* spp.), field kidney, lima (dry), navy, pinto and tepary; Bean (*Vigna* spp.), adzuki bean, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, broad (dry), chickpea (garbanzo), guar, lablab bean and lentil; Pea (*Pisum* spp.), field and pideon
- 3. Other bushberry crops approved for use with CLETHODIM 2E include: Aronia Berry, Blueberry (highbush), Black Currant, Buffalo Currant, Chilean Guava, Cranberry (highbush), Eldeerberry, European Barberry, Gooseberry, Honeysuckle (edible), Huckleberry (edible), Jostaberry, Juneberry (Saskatoon berry), Native Currant, Salal, Sea Buckthorn, Red Currant; cultivars, varieties and/or hybrids of these.
- 4. Other Caneberry crops approved for use with CLETHodim 2E include: Blackberry, Loganberry, Raspberry (black and red), Wild Raspberry; cultivars, varieties and/or hybrids of these.
- -5.— Other-head-and-stem brassica vegetables approved for use with CLETHODIM 2E: Chinese broccoli, brussels sprouts, Chinese (napa) cabbage, Chinese mustard, cavalo broccoli and kohlrabi.
- Other Fruiting Vegetables (except tomato) approved for use with CLETHODIM 2E include: eggplant, groundcherry, pepino, peppers (all) and tomatillo.
- 7. For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field
- 8. Other Herb crops approved for use with CLETHODIM 2E include: angelica, balm, basil, borage, bumet, chamomile, catnip, chervil (dried), chive, Chinese chive, clary, coriander (leaf), costmary, cilantro (leaf), curry (leaf), dill (dillweed), horehound, hyssop, lavender, lovage (leaf), marigold, marjoram (*origanum* spp.), nasturtium, parsley (dried), pennyroyal, rosemary, rue, sage and savory, summer and winter.
- 9. Other root vegetables approved for use with CLETHODIM 2E include: burdock, edible; celeriac; chervil, turnip-rooted; chicory; ginseng; parsley, turnip-rooted; parsnip; radish, oriental; rutabaga; salsify, salsify, black; salsify, Spanish; skirret and turnip.
- 10. Other Edible Podded Legume Vegetable crops approved for use with CLETHODIM 2E include: Bean (*Phaseoulus* spp.), runner, snap and wax; Bean (*Vigna* spp.), asparagus, Chinese longbean, moth, yardlong, jackbean; Pea (*Pisum* spp.), dwarf, ediblepod, snow, sugar snap, pigeon and sword bean.
- 11. Other Leafy Greens crops approved for use with CLETHODIM 2E include: amaranth (Chinese spinach, leafy amaranth and tampala), arugula (roquette), chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden, yellow rock and winter), dandelion, dock (sorrel), endive (escarole), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio (red chicory), spinach (New Zealand and Vine (Indian and Malabar).
- 12. Other cucurbit crops approved for use with CLETHODIM 2E include: Chayote (fruit), Chinese Wax Gourd, Citron Meion.
- 13. Other leafy brassica greens approved for use with CLETHODIM 2E include: broccoli raab, Chinese (bok choy) cabbage, collards, kale, mizuna, mustard greens, mustard spinach, rape greens and turnip greens.
- 14. Other leaf petiole crops approved for use with CLETHODIM 2E include: cardoon, celtuce, Chinese celery, Florence femine, and Swiss chard.

15. Other tuber and corm vegetables approved for use with CLETHODIM 2E include: arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible burdock, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen (taro), ginger, leren, tanier, turmeric and bean yam.

CLETHODIM 2E is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided in this label.

CLETHODIM 2E is a selective postemergence herbicide for control of annual and perennial grasses. CLETHODIM 2E does not control sedges or broadleaf weeds.

In some grass species, repeated use of CLETHODIM 2E (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products.

A resistant biotype may be present if poor performance occurs and cannot be attributed to adverse weather or application conditions. This will most likely occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

Do not allow CLETHODIM 2E to contact desirable grass crops such as corn, rice, sorghum, small grains, or turf, as these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.

Control Symptoms

A_reduction_in_vigor_and growth is evident in treated grass weeds. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days depending on grass species treated and environmental conditions.

APPLICATION INFORMATION

Application Timing

Apply CLETHODIM 2E postemergence to actively growing grasses according to rate table directions in this label. Do not apply to grass plants under stress from insufficient moisture or cold temperatures, or to grass plants exceeding recommended growth stages as unsatisfactory control may result.

In arid regions where irrigation is used to supplement limited rainfall, CLETHODIM 2E should be applied as soon as possible after an irrigation (within 7 days). In arid regions, a second application of CLETHODIM 2E will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of CLETHODIM 2E may reduce weed control. DO NOT APPLY CLETHODIM 2E if rainfall is expected within one hour, since control may be reduced.

ADDITION OF	ADJUVA	NT OR CR	OP OIL	CONCENT	RAIL

CROP	ADJUVANT RECOMMENDATIONS
Alfalfa, Cotton, Dry Bean, Dry Pea, Edible Podded Legume Vegetables, Peanuts (including perennial), Potato, Soybeans, Succulent Bean & Pea, Sugar Beet,	Always use a crop oil concentrate* (at 1.0 qt./A by ground or 1% v/v (but not less than 1 pt./A) in the finished spray volume by air.
Sunflower,	1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N or 32%N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to

CROP	ADJUVANT RECOMMENDATIONS
	CLETHODIM 2E applications, in addition to the recommended rate of crop oil concentrate. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Artichoke (Globe), Asparagus, Bushberry, Caneberry, Canola, Carrot, Clover, Cranberry, Cucurbits, Flax, Fruiting Vegetables (except tomato), Garden Beet, Garlic, Head & Stem Brassica Vegetables, Herbs, Hops, Leaf	Always use a crop oil concentrate at 1% v/v in the finished spray volume unless tank mix instructions indicate otherwise.
Petioles, Leafy Brassica greens, Leafy Greens, Mint, Mustard Seed, Onions (dry bulbs and green), Peaches, Root Vegetables, Safflower, Sesame, Shallots (dry bulbs and green), Strawberry, Sweet Potato (Yam & other Tuberous and Corm Vegetables except Potato) and Tomato	For these crops, the addition of liquid fertilizer is not recommended.
Non-Bearing Food Crops, Ornamental Plants	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Use of crop oil concentrate is not recommended since it may injure flowers and foliage.
Conifer Trees, Fallow Land (and other non-producing agricultural areas), and Non-Crop or Non-Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt./A) in the finished spray volume.

^{*}Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.

Ground Application

Use a minimum of 5 gallons and a maximum of 40 gallons of spray solution per acre. Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Under the following conditions a minimum of 10 gallons per acre is required: narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Failure to use a minimum of 10 gallons per acre under these conditions can result in poor coverage and reduced grass control requiring repeat applications. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Applications to onions (dry bulbs and green), garlic, and shallots (dry bulbs and green) should be made in a minimum of 20 gallons of spray solution per acre.

Air Application

Use a minimum of 3 gallons of spray solution per acre. As grass or crop foliage becomes dense, increase spray volume up to 10 gallons. For onions (dry bulbs and green), garlic, or shallots (dry bulbs and green): When applying by air do not exceed 8 fl. oz./A in a single application. In California, air applications to onions, garlic or shallots should be made in a minimum of 20 gallons of spray solution per acre.

NOTE: Crop injury may occur when CLETHODIM 2E is applied to onions, garlic, of snalots with aerial equipment.

Spot Treatment

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When using hand sprayers or high volume sprayers utilizing hand guns, mix 1/4% to 1/2% (0.33 oz. to 0.65 oz. per gallon) CLETHODIM 2E and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz. per gallon) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at 1/4% (0.33 oz. per gallon) by volume.

NOTE: If CLETHODIM 2E is applied as a spot treatment, care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.

CHEMIGATION - ONIONS (Dry Bulbs and Green) AND GARLIC

SPRINKLER IRRIGATION APPLICATION

 Do not apply CLETHODIM 2E by chemigation in the states of Idaho, Montana, Oregon and Washington

Apply CLETHODIM 2E at the high rate recommended for annual grasses (16 fl. oz. per acre) when the grass height is at the low end of the range (application to larger grasses may not provide adequate control). Add a crop oil concentrate containing at least 15% emulsifier at 1 quart per acre.

Apply CLETHODIM 2E in 0.1 to 0.2 acre-inch of water either at the end of a regular irrigation set or as a separate application not associated with a regular irrigation using the least amount of water that provides proper—distribution and coverage. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Use a metering device to inject CLETHODIM 2E into irrigation water at a constant flow.

Constant agitation must be maintained in the chemical supply tank during the entire period of herbicide application. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. Allow time for all lines to flush the herbicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining herbicide, a dye indicator may be injected into the lines to mark the end of the application period.

It is not recommended that CLETHODIM 2E be applied through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Use Precautions

- 1. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- 2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-ບໍ່ກໍາກິດາກ distribution of treated water.
- 3. If you have any questions about calibration, you should contact State Extension, Service specialists, equipment manufacturers or other experts.
- 4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.
- 5. A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

- 6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 8. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 12. Do not apply when wind speed favors drift beyond the area intended for treatment.

RESTRICTIONS AND LIMITATIONS

- Do not apply if rain is expected within 1 hour of application as unsatisfactory control may occur.
- Do not apply a postemergence broadleaf herbicide within one day following application of CLETHODIM 2E or reduced grass control may result.
- CLETHODIM 2E is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.
- For canola, do not apply more than 6 fl. oz. of CLETHODIM 2E (0.08 lb. ai) per acre per season. For clover, flax, mustard seed and radish crops, do not apply more than 16 fl. oz. of CLETHODIM 2E (0.25 lb. ai) per acre per season. For all other crops, do not apply more than 32 fl. oz. of CLETHODIM 2E (0.50 lb. ai) per acre per season. Application on Long Island, New York, is restricted to no more than 16 fl. oz. of CLETHODIM 2E (0.25 lb. ai) per acre per season.
- Do not apply more than 8 fl. oz./A of CLETHODIM 2E per application to the following crops: asparagus, brassica vegetables (head and stem), bean (succulent), carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, herbs, hops, leaf petioles, leafy brassica greens, leafy greens, legume vegetables (edible podded), non-bearing food crops, pea (shelled), pea (succulent), root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl. oz./A of CLETHODIM 2E per application to canola, or mustard seed. For all other crops, do not apply more than 16 fl. oz. of CLETHODIM 2E (0.25 lb. ai) per acre per application. Exceeding these directions may result in unacceptable crop injury.
- Do not apply under conditions of stress. Applying CLETHODIM 2E under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, low humidity and grasses either partially controlled or stunted from prior pesticide applications. Grasses under these kinds of stressful conditions will not absorb and translocate CLETHODIM 2E effectively, and will be less susceptible to herbicide activity.
- Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices, (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices, such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up, result in a very staggered, non-uniform weed emergence. Due to this non-uniform weed

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emergence, no fewer than two CLETHODIM 2E applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions.

- Grass crops such as corn, rice, sorghum, small grains, or turf, etc. are highly sensitive to CLETHODIM 2E.
- While all vegetable crops on this label have been tested and are tolerant to CLETHODIM 2E, not all specialty varieties of these crops have been tested. It is advised that, before applying CLETHODIM 2E to specialty varieties of vegetable crops on this label, crop tolerance be investigated first using a small section of the field. It is possible that injury symptoms can occur. Symptoms may appear as leaf speckling or stunting.
- Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.
- Tank mixes of CLETHODIM 2E and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of CLETHODIM 2E may be necessary.

AVOID SPRAY DRIFT

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift including:

- Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 10 MPH or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.
- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Further reductions in drift can be obtained by:
 - 1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
 - 2. Orienting nozzles straight back with the windstream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
 - 3. Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.
 - 4. Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

CROP SPECIFIC RESTRICTIONS AND LIMITATIONS FOR CLETHODIM 2E

Crops ⁽¹⁾	Minimum	Use Rates	Crop Oil	Special Use Instructions &
	Time From	Per Acre	Concentrate Rates	(((((
	Application to		Per Acre ⁽²⁾	((', () (
	Harvest (PHI)			, , , , , , ,

Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Alfalfa including: Sainfoin Holy Clover Birdsfoot trefoil ⁽³⁾	15 days before grazing, feeding or harvesting (cutting) for forage or hay	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	Do not plant rotational crops until 30 days after application of CLETHODIM 2E ^(5, 6) The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Artichoke (Globe)	5 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Do not apply more than 32 fl. oz./A (0.5 lb. ai/A) per season.
Asparagus	1 day	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval.
Beans, Dry including: Bean (Lupinus spp.) Grain Sweet White White Sweet Bean (Phaseolus spp.) Field Kidney Lima (dry) Navy Pinto Tepary Bean (Vigna spp.) Adzuki Bean Black-eyed Pea Catjang Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Broad (dry) Chickpea (garbanzo) Guar Lablab Bean Lentil	30 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	Do not apply more than 16 fl. oz./A per application. For repeat applications make on a minimum of a 14 day interval. Refer to appropriate Table for reduced rate directions for the control of small annual grasses. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Bean, Succulent including: Bean (Phaseolus spp.)	21 days	0-0 II. UZ.	1 qt. by ground or 1% v/v (but not less than 1 pt./A)	Refer to appropriate Table for reduced rate directions for the (control of small annual grasses.
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Crops ⁽¹⁾	Minimum	Use Rates	Crop Oil	Special Use Instructions
Сторь	Time From Application to Harvest (PHI)	Per Acre	Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Broad Bean (succulent)	Hai vese (1112)		by air. ⁽⁵⁾	
Lima Bean (green)			by all.	Do not apply more than one (1)
	1	ļ		application per acre per season.
Bean (vigna spp.) Black-eyed Pea				application per acre per season.
Cowpea		į		The addition of AMS has shown
Southern Pea				improved grass control for difficult
. Southern Pea				to control species including:
				quackgrass, rhizome Johnsongrass,
	•			red rice, wild oats, volunteer cereals
				and volunteer corn.
Beet, Garden	30 days	6-8 fl. oz.	1% v/v in the	Do not apply more than 8 fl. oz. per
beet, Garden	Jo days	0 0 11. 02.	finished spray	acre in a single application.
			volume.	dere in a single application.
•			Volume.	For repeat applications, observe a
				minimum 14-day interval between
			1	applications.
Brassica Vegetables,	30 days	6-8 fl. oz.	1% v/v in the	Do not apply more than 8 fl. oz. per
Head and Stem	,-		finished spray	acre in a single application.
including:			volume.	
Broccoli				For repeat applications, observe a
Cabbage				minimum 14-day interval between
Cauliflower				applications.
_Brussels sprouts		-		
Bushberry, including:	14 days	6-8 fl. oz	1% v/v in the	Do not apply more than 8 fl. oz./A
Aronia berry			finished spray	in a single application.
Blueberry, highbush			volume.	Do not onely many than 22 ft an
Chilean Guava				Do not apply more than 32 fl. oz. (0.5 lb. ai/A) per season.
Cranberry, Highbush Currant, Black				(0.5 lb. al/A) per season.
Currant, Buffalo				For repeat applications make a
Currant, native				minimum of a 14 day interval.
Currant, Red				minimum or a 14 day interval.
Elderberry				Apply at the base of the plant
European Barberry				where grassy weeds are growing
Gooseberry				near the ground.
Honeysuckle edible				near the greatar
Huckleberry		j		Do not apply to low growing
Jostaberry				berries.
Juneberry				
Saskatoon berry				Do not apply to Bushberry grown
Native currant				for root stock.
Salai				·
Sea Buuckthorn				
Cultivars, varities and/or				
hybrids of these				
Caneberry, including:	7 days	6-8 fl. oz.	1% v/v in the	Do not apply more than 8 fl. oz./A
Blackberry			finished spray	in a single application.
Loganberry			volume.	Do not apply more than 33 fl = 5 fg
Raspberry, black				Do not apply more than 32 fl.oz./A
Raspberry, red				(0.5 lb. ai/A) per season.
Raspberry, wild				For repeat applications make on a
Cultivars, varieties and/or hybrids of these.				
מווטיטו וואטווטט טו נוופשב.		_		minimum of a 14 day interval:
				Apply at the base of the plant
	 	L	<u> </u>	Typhia ar are pase of the hight

Clover 15 days before grazing, feeding, or harvesting (cutting) for forage or hay Corn, Field For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready Field Corn (Burndown) table. Cotton 60 days 6-16 fl. oz. 19% v/v in the finished spray volume. 10% viv in the vive second volume. 10% viv in the finished spray volume. 10% viv in the finished spray volume. 10% viv in the vive second volume. 10% viv in the finished spray volume. 10% viv in the finished spray volume. 10% viv in the vive second	Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Canola* 70 days 4-6 fl. oz. 1% v/v in the finished spray volume. Do not apply to Caneberry grown for root stock.					
Canola* 70 days 4-6 fl. oz. 1% v/v in the finished spray volume. Do not apply after crop has begun bolting. Crop injury may occur when CLETHODIM ZE is applied during the bloom period. Do not apply more than 6 fl. oz./A in a single application. Do not apply more than 8 fl. oz./A in a single application. Do not apply more than 8 fl. oz./A in a single application. Do not apply more than 8 fl. oz./A in a single application. Do not apply more than 8 fl. oz. per dare in a single application. Do not apply more than 8 fl. oz. per dare in a single application. Do not apply more than 8 fl. oz. per dare in a single application. Do not apply more than 8 fl. oz. per dare in a single application. For repeat applications, observe a minimum 14-day interval between applications. For use on clover grown in Idaho, Oregon, and Washington only. Do not exceed 16 fl. oz. in a season.					
Not for use in California unless accompanied by a supplemental label Second					
Corro, Field For burndown of existing stand of Roundup Ready Field corn or volunteer Roundup Ready Field Corn or volunteer Roundup Ready Field Corn (Burndown) table. Cotton	Not for use in California unless accompanied by	70 days	4-6 fl. oz.	finished spray	bolting. Crop injury may occur when CLETHODIM 2E is applied during the bloom period. Do not apply more than 6 fl. oz./A in a single application. Do not exceed 6 fl. oz./A in a
Clover 15 days before grazing, feeding, or harvesting (cutting) for forage or hay Corn, Field Fire burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn Burndown) table. See Directions for Use in Roundup Ready Field Corn (Burndown) table. Cotton South of the provided the provided Roundup Ready Field Corn (Burndown) table. Cotton Co	Carrot	30 days	6-8 fl. oz.	finished spray	Do not apply more than 8 fl. oz. per acre in a single application. For repeat applications, observe a
before grazing, feeding, or harvesting (cutting) for forage or hay Corn, Field For burndown of existing stand of Roundup Ready field corn prior to replanting field corn (Burndown) table. Cotton before grazing, feeding, or harvesting (cutting) for forage or hay Do not use COC or MSO with CLETHODIM 2EC in this use pattern. Do not make more than 1 application per season. Do not apply more than 3 fl. oz./A per season. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. The addition of AMS has shown to improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer.			,	·	
For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field corn prior to replanting field corn See Directions for Use in Roundup Ready Field Corn (Burndown) table. Cotton 60 days 6-16 fl. oz. MSO with CLETHODIM 2EC in this use pattern. Do not apply more than 3 fl. oz./A per season. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application. To control the existing stand, replant no sooner than 6 days after application.		before grazing, feeding, or harvesting (cutting) for forage or hay	-	finished spray volume.	Oregon, and Washington only. Do not exceed 16 fl. oz. in a season.
field corn See Directions for Use in Roundup Ready Field Corn (Burndown) table. Cotton 60 days 6-16 fl. oz. 1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air (5) The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats volunteer	For burndown of existing stand of Roundup Ready field corn or volunteer Roundup Ready field	90 days	3 fl. oz.	MSO with CLETHODIM 2EC	application per season. Do not apply more than 3 fl. oz./A per season.
1.0% v/v (but not less than 1 pt./A) by air (5) The addition of AMS has shown ຍ improved grass control for difficult to control species it cluding: quackgrass, Rhizome johnsongrass, red rice, wild oats. volunteer	field corn See Directions for Use in Roundup Ready Field Corn (Burndown) table.				replant no sooner than 6 days after application.
, (, (, (, c,	Cotton	60 days	6-16 fl. oz.	1.0% v/v (but not less than 1 pt./A)	treated forage or hay to livestock. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats volunteer cereals, and volunteer corns

Crops ⁽¹⁾	Minimum	Use Rates	Crop Oil	Special Use Instructions
,	Time From Application to Harvest (PHI)	Per Acre	Concentrate Rates Per Acre ⁽²⁾	
Cranberry	30 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application.
				Do not apply between the "hook" stage and full fruit set.
				For repeat applications, observe a minimum 14-day interval between applications.
Cucurbits, including: Cantaloupes (all) Chayote (fruit)	14 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application.
Chinese Wax Gourd Citron Melon Cucumber Gherkin				For repeat applications, observe a minimum 14-day interval between applications.
Gourd, Edible Honeydew Melon Muskmelons (all) Pumpkin				
Squash (all) Watermelon				
Fallow-Land Conifer Trees (and other non- producing agricultural areas)	N/A -	6-16 fl. oz.	1% v/v (but not less than 1 pt./A) in the finished spray volume using a crop oil concentrate containing at least	Do not plant any-crop for 30-days after application unless clethodim is registered for use in that crop.
Non-Crop or Non- Planted Areas		·	15% emulsifier.	·
Flax* Not for use in California unless accompanied by	60 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Apply prior to bloom. Crop injury may occur when CLETHODIM 2E is applied during the bloom period.
a supplemental label			·	Do not apply more than 8 fl. oz./A in a single application.
			,	Do not exceed 16 fl. oz. of CLETHODIM 2E per acre in a season.
Fruiting Vegetables (except Tomato), including:	20 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application.
Eggplant Groundcherry Pepino Peppers (all)				For repeat applications, okserve a minimum 14-day interval between applications.
Tomatillo				((((, (

Time From Application to Harvest (PHI) Herbs including: 14 days Application to Harvest (PHI) Herbs including: 14 days Angelica Balm Basil Borage Burnet Camomile Catnip Chevil (dried) Chive Chinese Clary Corlander (leaf) Costmary Cilantro (leaf) Curry (leaf) Hyssop Lavender Lovage (leaf) Marigold Marjoram Corliage (laef) Marigold Marjoram Corliage (leaf) Marsuman Raste (Per Acre (27) Rue Sage Savory, Summer and Winter Hops 21 days 6-8 fl. oz. 1% V/v in the finished spray volume Concentrate Rates Per Acre (27) Per Pace (27)	C(1)	Ministra	Lico Datas	Cross Oil	Consider the Total Constitution of
Application to Harvest (PHI) Herbs including: Angelica Balm Barage Burnet Camomile Cathip Chevil (dried) Chive, Chinese Clary Collantro (leaf) Corrigadum spp. (Origanum spp.) (Origanum spp.) Nasturtium Parsley (dried) Pernyroyal Rosemary Rue Sage Savory, Summer and Winter Hops Application to Harvest (PHI) 14 days 6-8 fl. oz. 196 v/v in the finished spray volume 196 v/v in the finished spray volume CLETHODIM 2E has not been tested on all herbs, and herb varieties. It is the responsibility of the user to test CLETHODIM 2E on a small portion of the crop to be treated before treating the entire field. Corp tolerance should be verified to CLETHODIM 2E na small area of the herb crop, at the desired CLETHODIM 2E rate and with the same crop oil concentrate that will be used on the entire field at the rate tested and with the same crop oil used in the tolerance test. Do not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Leafy Petioles including: Cardoon Celery Celtuce Chinese Clery Angelica 6-8 fl. oz. 1% v/v in the finished spray volume Per Acre ⁽²⁾ 1% v/v in the finished spray volume CLETHODIM 2E has not been tested on all Herbs, and herb varieties. It is the responsibility of the user to test CLETHODIM 2E on a small portion of the crop to be treated before treating the entire field. Corp tolerance should be verified to CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the desired CLETHODIM 2E on a small area of the herb crop, at the estate the	Crops ⁽¹⁾	Minimum	Use Rates	Crop Oil	Special Use Instructions
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Herbs including: Angelica Angelica Basin Basin Borage Burnet Camomile Cathip Chervil (dried) Chive Chive, Chinese Clary Costmary Cliantro (leaf) Dill (dillweed) Horehound Hyssop Lavender Lovage (leaf) Marigola Marjoram (Origanum spp.) Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Saory, Summer and Winter Hops 21 days 6-8 fl. oz. 1% v/v in the finished spray volume 1% v/v in the finished spray volume CLETHODIM ZE na small portion of the crop to be treated before treating the entire field. Crop tolerance should be verified to CLETHODIM ZE on a small area of the herb crop, at the desired CLETHODIM ZE on a small area of the herb crop, at the desired CLETHODIM ZE na small area of the herb crop, at the desired CLETHODIM ZE na small area of the herb crop oil concentrate that will be used on the herb field. If no crop response is evident seven (7) days after treatment, CLETHODIM ZE may be used on the entire field at the rate tested and with the same crop oil used in the tolerance test. Do not apply more than 8 fl. oz./A in a single application. For repeat applications make on a minimum of a 14 day interval. Leafy Petioles including: Cardoon Celery Celtuce Chinese Cathip Crop tolerance should be verified to CLETHODIM ZE na small portion of the crop to be treated before treating the entire field. Crop tolerance should be verified to CLETHODIM ZE na small area of the herb crop, at the desired CELTHODIM ZE na small area of the herb crop, at the desired CELTHODIM ZE na small area of the herb crop, at the desired CELTHODIM ZE na small area of the herb crop, at the desired CELTHODIM ZE na small area of the herb crop, at the desired CELTHODIM ZE na small portion of the crop to be treated before treating the entire field. Crop tolerance the with the same crop oil used in the tolerance test. Do not apply more than 8 fl. oz./A in a single application. For repeat application. For repeat applications make on a minimum of a 14 day interval.				Per Acre(2)	
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Fennel, Florence					
(finochio)					
Rhubarb					
Swiss Chard	Swiss Chard	<u> </u>	L		(000

Crops ⁽¹⁾	Minimum	Use Rates	Crop Oil	Special Use Instructions
Сгорз	Time From	Per Acre	Concentrate Rates	Special OSE Instructions
	Application to		Per Acre ⁽²⁾	
	Harvest (PHI)			
Leafy Brassica Greens	14 days	6-8 fl. oz.	1% v/v in the	Do not apply more than 8 fl. oz. per
including:			finished spray	acre in a single application.
Broccoli Raab			volume.	
Cabbage,				For repeat applications, observe a
Chinese (Bok Choy)				minimum 14-day interval between
Collards				applications.
Kale				
Mizuna				
Mustard Greens				
Mustard Spinach	,			
Rape Greens				
Turnip Greens	 			
Leafy Greens including:	14 days	6-8 fl. oz.	1% v/v in the	Do not apply more than 8 fl. oz. per
Amaranth			finished spray	acre in a single application.
Chinese Spinach	1	ì	volume.	F
Leafy Amaranth				For repeat applications, observe a
Tampala				minimum 14-day interval between
Arugula (roquette) Chervil				applications.
Chrysanthemum,				
Garland				•
Corn Salad				
Cress				
Garden			·	
Upland (yellow				
rock and winter)				
Dandelion				
Dock (sorrel)				
Endive (escarole)				
Lettuce, Head and Leaf	1			
Orach	,			
Parsley	}	}	,	
Purslane				
Garden				
Winter	,			·
Radicchio (red chicory)	}			
Spinach				·
New Zeland		,		
Vine (indian and				·
malabar)				

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Crops ⁽¹⁾	Minimum Time From	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
	Application to Harvest (PHI)		Per Acres	
Legume Vegetables, Edible Podded including:	21 days	6-8 fl. oz.	1 qt. by ground or 1% v/v (but not	Do not apply more than 8 fl. oz./A in a single application.
Bean (Phaseolus spp.) Runner Snap			less than 1 pt./A) by air. ⁽⁵⁾	Do not apply more than one (1) application per acre per season.
Wax Bean (Vigna spp.) Asparagus Chinese Longbean				For peas apply before bloom, but no later than 21 days before harvest.
Moth Yardlong Jackbean Pea (Pisum spp.) Dwarf				Refer to appropriate Table for reduced rate directions for the control of small annual grasses.
Edible-pod Snow Sugar Snap Pigeon Sword Bean	·			The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Mint	21 days	6-16 fl. oz. ⁽⁴⁾	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A)	Do not apply more than 16 fl. oz. per acre in a single application.
			by air.	For repeat applications, observe a minimum 14-day interval between applications.
Mustard Seed* Not for use in California unless accompanied by	75 days	4-6 fl. oz.	1% v/v in the finished spray volume.	Do not apply after crop has begun bolting. Crop injury may occur when CLETHODIM 2E is applied during the bloom period.
a supplemental label				Do not apply more than 6 fl. oz./A in a single application.
,				Do not exceed 16 fl. oz. of CLETHODIM 2E per acre in a season.
Onions (Dry Bulbs Only)	45 days	6-16 fl. oz. (7), (8)	1% v/v in the finished spray volume.	Minimum of 20 gallons per acre spray volume by ground in the entire U.S.
Garlic Shallots		Ì		Minimum of 20 gallons per acre spray volume by air in California ⁽⁹⁾
(Dry Bulbs Only)				In states other than California, air applications to onions, garlíc or a shallots should be made in a control of the control o
				minimum of 10 gals./A.

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Crops ⁽¹⁾	Minimum Time From Application to Harvest (PHI)	Use Rates Per Acre	Crop Oil Concentrate Rates Per Acre ⁽²⁾	Special Use Instructions
Onions, Green including: Green Eschalots Green Shallots Japanese Bunching Onions Leeks Scallions or Spring Onions	14 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application. For repeat applications, observe a minimum 14-day interval between applications.
Ornamentals	N/A	6-16 fl. oz.	Use of crop oil concentrate is not recommended since it may injure	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gallons (0.25% v/v).
Non-Bearing Food Crops	N/A	6-8 fl. oz. ⁽⁸⁾	flowers and foliage. See Special Use Instructions	Sugar maples cannot be tapped for syrup within one year of CLETHODIM 2E application.
Pea, Dry including: Pea (Pisum spp.) Field Pigeon	30 days	6-8 fl. oz.	1 qt. by ground or 1% v/v (but not less than 1 pt./A) by air. ⁽⁵⁾	Do not apply more than 8 fl. oz./A per application. Do not apply more than one (1)
-			· · · · · · · · · · · · · · · · ·	application per acre per season. Apply before bloom but not later than 30 days prior to harvest. (10)
				Refer to appropriate Table for reduced rate directions for the control of small annual grasses.
				The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals and volunteer corn.
Peas, Succulent including: Pea (Pisum spp.)	21 days	6-8 fl. oz.	1 qt. by ground or 1% v/v (but not less than 1 pt./A)	Do not apply more than 8 fl. oz./A per application.
English Pea Garden Pea Green Pea			by air. ⁽⁵⁾	Do not apply more than one (1) application per acre per season.
Pigeon Pea				Apply before bloom but not later than 21 days prior to harvest. (10)
				Refer to appropriate Table for the reduced rate directions for the control of small annual grasses.
				The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, rhizome Johnsongrass, red rice, wild oats, volunteer cereals
				red rice, wild pats, volunteer cere and volunteer corn.

Crops ⁽¹⁾	Minimum Time From	Use Rates Per Acre	Crop Oil Concentrate Rates	Special Use Instructions
	Application to Harvest (PHI)		Per Acre ⁽²⁾	
Peach	14 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz./A in a single application.
				Do not apply more than 32 fl. oz./A (0.5 lb. ai/A) per season.
				For repeat applications make on a minimum of a 14 day interval.
				Do not apply to Peach grown for root stock.
Peanut (including Perennial)	40 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Potato	30 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Radish	15 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application. Do not apply more than 16 fl. oz. (0.25 lb. ai) per acre in a season.
				For repeat applications, observe a minimum 14-day interval between applications.
Root Vegetables (except Radish), including: Chicory	30 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz. per acre in a single application.
Ginseng Horseradish Turnip				For repeat applications, observe a minimum 14-day interval between applications.
Safflower	70 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply more than 8 fl. oz./A in a single application.
				For repeat applications make on a minimum of a 14 day interval.
Sesame	14 days	6-8 fl. oz.	1% v/v in the finished spray volume.	Do not apply during flowering. Do not apply more than 8 fl. oz A in a single application.
				For repeat applications make on a minimum of a 14 day interval.
				· (((((, (, (, (, (, (, (, (, (, (, (, (,
				cccc

Crops ⁽¹⁾	Minimum Time From	Use Rates Per Acre	Crop Oil Concentrate Rates	Special Use Instructions
	Application to Harvest (PHI)	T CI TICIC	Per Acre ⁽²⁾	
Soybean	60 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A)	Do not graze treated fields or feed treated forage or hay to livestock.
			by air ⁽⁵⁾	Refer to appropriate Table for reduced rate directions for the control of small annual grasses.
				The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer
Strawberry	4 days	6-8 fl. oz.	1% v/v in the	cereals, and volunteer corn. Do not apply more than 8 fl. oz. per
, Garana,	,.		finished spray volume.	acre in a single application.
			-	For repeat applications, observe a minimum 14-day interval between applications.
Sugar Beet	40 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	Refer to appropriate Table for reduced rate directions for the control of small annual grasses.
				The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer
Sunflower	70 days	6-16 fl. oz.	1 qt. by ground or 1.0% v/v (but not less than 1 pt./A) by air ⁽⁵⁾	cereals, and volunteer corn. The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Sweet Potato, Yam and other tuberous and corm vegetables (except Potato), including: Artichoke – Chinese, Jerusalem Cassava – Bitter, Sweet Ginger	30 days	6-16 fl. oz.	1% v/v in the finished spray volume.	The addition of AMS has shown improved grass control for difficult to control species including: quackgrass, Rhizome johnsongrass, red rice, wild oats, volunteer cereals, and volunteer corn.
Tomato	20 days	6-16 fl. oz.	1% v/v in the finished spray volume.	For repeat applications make on a minimum of a 14 day interval.

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Crops ⁽¹⁾	Minimum	Use Rates	Crop Qil	Special Use Instructions
	Time From	Per Acre	Concentrate Rates	·
	Application to		Per Acre ⁽²⁾	
	Harvest (PHI)			

N/A = Not Applicable

- (1) CLETHODIM 2E is not recommended for use on vegetable crops being grown for seed production unless specific use directions are provided.
- (2) Acceptable crop oil concentrates would be those which contain a minimum of 80% oils and 15% emulsifier. A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria: be non-phytotoxic, contain only EPA-exempt ingredients, provide good mixing quality and be successful in local experience. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. See the Addition of Adjuvant and Crop Oil Concentrate section for further information.
- (3) CLETHODIM 2E may be applied to seedling or established alfalfa grown for seed, hay, silage, green chop, or direct grazing.
- (4) For weed control in established alfalfa and mint, the minimum use rate is 10 fl. oz./A.
- (5) 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N or 32%N), or an equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added to CLETHODIM 2E applications, in addition to the recommended rate of crop oil concentrate.
- (6) Do not apply CLETHODIM 2E and 2,4-DB as a tank mix to alfalfa unless the 60 day feeding, grazing, and harvesting restriction on the 2,4-DB label can be observed.
- (7)—For-ground-applications to garlic or shallots, do not exceed 8 fl. oz./A in a single application. For air applications to onion, garlic or shallots, do not exceed 8 fl. oz./A in a single application. For garlic and shallots do not exceed 2 applications per season. In CA for air applications to onions, do not exceed 2 applications per season.
- (8) If CLETHODIM 2E is applied as a spot treatment to onions, garlic, shallots, or non-bearing food crops, care should be taken to not exceed the maximum rate allowed on a "per acre" basis or crop injury may occur.
- (9) In California, do not apply CLETHODIM 2E to onions, garlic, or shallots until the crop has at least two full leaves. In California, 14 day spray intervals are recommended between the application of CLETHODIM 2E and Liquid Nitrogen or other herbicide applications. Injury to crop may occur when shorter intervals are observed.
- (10) Applications of CLETHODIM 2E to peas during the bloom period could result in severe crop injury, including loss of yield and delayed maturity.

NON-BEARING FOOD CROPS

CLETHODIM 2E should not be applied to non-bearing fruit or nut crops that are grown for root stock.

Crop injury to non-bearing fruit and nut crops can occur if CLETHODIM 2E is improperly applied. CLETHODIM 2E should not be applied directly over the top of these plant types. Instead, spray should be directed at the base of the plant where grassy weeds are growing near the ground.

Non-bearing fruit and nut crops are plants that will not bear fruit or nuts for at least one year following CLETHODIM 2E application.

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp.
Berries	Vaccinium spp.
	Rubus spp.

COMMON NAME	SCIENTIFIC NAME
Cherry, Sweet	Prunus avium
Citrus Fruits	Citrus spp.
Grapes	Vitis spp.
Olives	Olea spp.
Peach	Prunus persica
Pears	Pyrus communis
Prunes	Prunus spp.
Stone Fruits	Prunus spp.
Strawberries	Fragaria spp.
Tree Nuts	
Almond	Prunus dulcis
Filbert Corylus maxima	
Pecan Carya illinoinensis	
Pistachio Pistacia vera	
Walnut Juglans spp.	

CONIFER TREES

CLETHODIM 2E can be used to control labeled grasses in Christmas tree farms, conifer nurseries, and conifer plantations (but not in forests).

COMMON NAME	SCIENTIFIC NAME
Arborvitae, American	Thula occidentalis
Cedars	Cedrus spp.
Cypress	Taxodium spp.
Douglas Fir	Pseudotsuga menziesii
Firs	Abies spp.
Hemlock, Canadian/Eastern	Tsuga canadensis
Hemlock, Western	Tsuga heterophylla
Pines	Pinus spp.
Spruces	Picea spp.
Yew	Taxus spp.

NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas: rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations. Around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways and post-harvest croplands. Also beneath greenhouse benches and around golf courses.

USE DIRECTIONS FOR ANNUAL GRASSES (EXCEPT FOR IN ESTABLISHED ALFALFA AND MINT)

Apply only to actively growing grasses at recommended weed heights.

Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.

Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

Do not apply more than 8 fl. oz./A of CLETHODIM 2E per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens. Leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl. oz./A of CLETHODIM 2E per application to canola, or mustard seed.

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./acre)	High Rate ⁽⁴⁾
Barnyardgrass	Echinochloa crus-galli	2-8	6	8
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	6	8
Brome				
California	Bromus carinatus	. 2-6	6	8
Cheatgrass	Bromus secalinus	2-6	6	8
Downy	Bromus tectorum	2-6	6	8
Ripgut	Bromus diandrus	2-6	6	8
Canarygrass	Phalaris canariensis	1-4	6	8
Crabgrass				
Hairy	Digitaria adscendens	2-6**	6	8
Large	Digitaria sanguinalis	2-6**	6	8
Smooth	Digitaria ischaemum	2-6**	6	8
Southern	Digitaria ciliaris	2-6**	6	8
Crowfootgrass	Dactyloctenium aegyptium	2-6**	6	8
Fall Panicum	Panicum dichotomiflorum	2-8	6	8
-Field Sandbur	Cenchrus incertus	2-6	6_	8
Foxtail				
Giant	Setaria faberi	2-12	6_	8
Green	Setaria viridis	2-8	6	8
Yellow	Setaria glauca ,	2-8	6	8
Goosegrass	Eleusine indica	2-6**	6	8
Itchgrass	Rottboellia exaltata	2-6	6	8
Junglerice	Echinochloa colona	2-6	6	8
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2-6	6	8
Rabbitsfootgrass	Polypogon monspeliensis	1-4	6	8
Red Rice	Oryza sativa	1-3	6	8
Ryegrass				
Hardy	Lolium remotum	2-6	6	8
Italian	Lolium multiflorum	2-6	. 6	8
Seedling Johnsongrass	Sorghum halepense	4-10	6	8
Shattercane	Sorghum bicolor	6-18	6	8
Southwestern Cupgrass	Eriochlola gracillis	2-6	6	8
Sprangletop				
Amazon	Leptochloa panicoides	2-6	6	8
Bearded	Leptochloa fascicularis	2-6	6	88
Mexican	Leptochloa uninervia	2-6	6	
Red	Leptochloa filiformis	2-6	. 6	8 .
Texas Panicum	Panicum texanum	2-6	6	,8;
Volunteer Cereals (3)				(
Barley	Hordeum vulgare	2-6	6 6	8
Oats	Avena sativa	2-6	6	8
Rye	Secale cereale	2-6	.6	7.080
Wheat	Triticum aestivum	2-6	. 6	ر 8

Grass Species	Scientific Name	Weed* Height	Rate	High Rate ⁽⁴⁾
·		(inches)	(fl. oz./acre)	
Volunteer Corn (2)	Zea mays	4-12	4	6
Volunteer Corn (S.R.) (1)	Zea mays	4-12	8	(suppression only)
Volunteer Corn (2)	Zea mays	12-24	6	8
Volunteer Grain Sorghum	Sorghum bicolor	8-12	6	8
Wild Oats	Aven fatua	2-6	6	8
Wild Proso Millet	Panicum miliaceum	2-10	6	8
Witchgrass	Panicum capillare	2-8	6	8
Woolly Cupgrass	Eriochloa villosa	2-8	6	8

^{*}Generally occurs between 3-leaf stage and tillering

1. Sethoxydim resistant volunteer corn.

2. Includes Roundup Ready[®], Liberty Link[®] and IMI-CORN[®] volunteer corn.

- 3. When the cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum CLETHODIM 2E use rate for control is 8 fl. oz./A.
- 4. Rates higher than 8 fl. oz./A may be applied in certain geographic areas, environmental conditions, or cropping situations, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 8 to 16 fl. oz./A may be applied. Do not apply more_than_8_fl._oz./A_of_CLETHODIM_2E_per_application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens. Leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl. oz./A of CLETHODIM 2E per application to canola or mustard seed.

USE DIRECTIONS FOR ANNUAL & PERENNIAL GRASS CONTROL IN ESTABLISHED ALFALFA AND MINT WITH CLETHODIM 2E

Grass Species	Weed Stage	Rate	High Rate
		(fl. oz./acre)	
Annual & Perennial Grasses Listed in Grass Table	See Table	10	16

Mowing: The best control of annual grasses can be achieved by applying CLETHODIM 2E before grass weeds are mowed. Once a grass is mowed it becomes tougher to control, as much of the available leaf surface has been removed. In areas without a killing frost, some annuals can over-winter after having been mowed multiple times. These grasses form large crowns and may contain many viable buds. These grasses, even though they may be an annual grass, may require repeated application of CLETHODIM 2E for partial or complete control.

Irrigated Alfalfa and Mint: In established alfalfa and mint, irrigation practices can be very critical to the successful use of CLETHODIM 2E and may be necessary to initiate active growth of the weeds prior to application. Generally applications 2 to 4 days following irrigation are most effective. More consistent grass control occurs when the irrigation occurs before the application is made but irrigation shortly after application (2 days) can be effective.

Aerial Application: Apply CLETHODIM 2E in a minimum of 10 GPA in established alfalfa and mint when applying by air.

^{**}Length of lateral growth

Annual Grass Control: Apply CLETHODIM 2E at the grass sizes indicated in the Use Directions for Annual Grass Table and rates indicated above (§ 10 to 16 fl. oz./A). If a grass has been cut, apply CLETHODIM 2E after active growth has resumed and regrowth has reached the minimum height and before it reaches the maximum height indicated. Apply before the alfalfa/mint canopy covers the grasses and interferes with the spray coverage. Some annual grasses are spring and summer germinating plants, while others are fall germinating plants, and the time they are actively growing and most susceptible to CLETHODIM 2E may vary from region to region. Also some annuals germinate over an extended period of time, and because control of small grasses is desired, applications after each weed flush may be required. As a general rule, spray spring and summer germinating grasses as early in the season as possible, after initial green-up. Spray fall germinating weeds in the fall soon after they begin growing but before any damage is done due to frost. Late fall applications may be less effective due to environmental conditions, such as frost, slower plant growth, or the onset of flowering.

Perennial Grass Control: CLETHODIM 2E effectively controls perennial grasses such as bermudagrass, Johnsongrass, quackgrass, wirestem muhly, tall fescue, foxtail barley and orchardgrass. Due in part to lack of tillage, perennial grasses are more difficult to control in a perennial crop such as established alfalfa or mint. A program of repeated applications is usually necessary for best results. The best way to control perennial grasses is to do so in the year of stand establishment before rhizomes and stolons become large and difficult to kill.

Use the high rate when grasses are at or near maximum height and/or under heavy grass pressure.

Always add a crop oil concentrate at 1 qt./A by ground or 1% v/v (but not less than 1 pt./A) to the finished spray volume by air.

USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH CLETHODIM 2E

Grass Species	Weed Stage	Rate (fl. oz./acre)	High Rate
Annual Bluegrass (Poa annua)	to 4-Leaf	6*	16

^{*}Use a minimum of 8 fl. oz./acre to control annual bluegrass in seedling and established alfalfa and mint.

- 1. Grass needs to be actively growing at time of application(s). Apply under favorable soil moisture and humidity that exists within a few days after rainfall or within 7 days after irrigation.
- 2. Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.
- 3. Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.
- 4. Always add a crop oil concentrate at 1 qt./acre by ground to the finished spray volume.

OOL IN ROUNDOL READ LIE	LD CORN (BURNDOWN)
APPLICATIONS RATES	
WEED SIZE (inches)	Rate when applied alone or with glyphosate
Up to 12	3 fl oz/A
•	nteer Roundup Ready field corn pṛjēກ
	essive crop injury may occur.
	ι
1.25% v/v plus AMS at 2.5 to 4 odim 2E in this use pattern.	4 lbs/A.
	WEED SIZE (inches) Up to 12 Idup Ready field corn or volur boom (spray) overlaps or excelapplication. 1.25% v/v plus AMS at 2.5 to 4

DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES IN CANOLA, DRY BEAN & DRY PEA (INCLUDING SOYBEANS), EDIBLE PODDED LEGUME VEGETABLES, FLAX, MUSTARD SEED, SUCCULENT BEAN & PEA AND SUGAR BEET

- Make applications only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Regrowth by tillering may occur if application is made when plants are stressed by lack of moisture, excessive moisture, low temperatures and/or under very low humidity.

Grass Species	Scientific Name	Weed Height	Rate
		(inches)	(fl. oz./acre) (1)
Barnyardgrass	Echinochloa crus-galli	1-4	4
Broadleaf Signalgrass	Brachiaria platyphylla	1-4	. 5
Crabgrass			
Large	Digitaria sanguinalis	1-3*	4
Large	Digitaria sanguinalis	1-4*	5
Smooth	Digitaria ischaemum	1-3*	4
Smooth	Digitaria ischaemum	1-4*	5
Southern	Digitaria ciliaris	1-4*	5
Fall Panicum	Panicum dichotomiflorum	1-4	4
Foxtail			
Giant	Setaria faberi	1-4	4
-Green-	Setaria-viridis-	1-4	4
Millet	Setaria italica	· 1-4	5
Yellow	Setaria glauca	1-4	4
Seedling Johnsongrass	Sorghum halepense	1-6	5
Shattercane	Sorghum bicolor	4-10	4
Texas Panicum	Panicum texanum	1-4	5
Volunteer Cereals			
Barley	Hordeum vulgare	1 to 4	5
Oats	Avena sativa	1 to 4	5
Wheat	Triticum aestivum	1 to 4	5
Volunteer Corn**	Zea mays	4-12	4
Wild Oats	Aven fatua	1-4	5
Wild Proso Millet	Panicum miliaceum	1-6	4

- * Length of lateral growth
- ** Not sethoxydim resistant corn
- (1) Always add a crop oil concentrate at 1 qt./acre by ground to the finished spray volume.

USE DIRECTIONS FOR PERENNIAL GRASSES

- Make applications only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate when grasses are at maximum height and/or under heavy grass pressure.
- Do not apply more than 8 fl. oz./A of CLETHODIM 2E per application to the following crops: asparagus, carrot, cranberry, cucurbits, flax, fruiting vegetables (except tomato), garden beet, green onion, head and stem brassica vegetables, herbs, hops, leaf petioles, leafy brassica greens. Leafy greens, non-bearing food crops, root vegetables, safflower, sesame and strawberry. Do not apply more than 6 fl. oz./A of CLETHODIM 2E per application to canola or mustard seed.

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./acre)	High Rate
Bermudagrass	Cynodon dactylon	(iliciles)	(II. Oz./acre)	
First Application	Cyriodoir dactyioir	3 (or up to 6" runners)	8	16
Repeat Application(s)		3 (or up to 6" runners)	8	16
		3 (or up to 6 Turiners)	0	10
(if regrowth occurs)				
Fescue, tall	Festuca arundinacea			
First Application		4-8	8	16
Repeat Application(s)		4-8	8	16
(if regrowth occurs)				
Foxtail Barley	Hordeum jubatum			
First Application		2-6	8	16
Repeat Application(s)		2-6	8	16
(if regrowth occurs)				
Orchardgrass	Dactylis glomerata			
First Application	Dactylio giornerata	4-8	8	16
Repeat Application(s)		4-8	8	16
(if regrowth occurs)		4-0	0	10
(ii regrowth occurs)				
Quackgrass*	Elytrigia repens			
First Application		4-12	8	16
Repeat Application(s)		4-12	8	16
(if regrowth occurs)				
Rhizome Johnsongrass	Sorghum halepense			
First Application		12-24	8	16
Repeat Application(s)		6-18	6	8
(if regrowth occurs)				
Wirestem Muhly	Muhlenbergia frondonsa			
First Application	Municipergia mondonsa	4-8	8	16
Repeat Application(s)		4-8	8	16
(if regrowth occurs)		т-о !	0 .	10
(ii regiowai occuis)				
Perennial Bluegrass*				
Roughstalk	Poa trivialis			
Kentucky	Poa prantensis			
First Application		2-4	8	16
Repeat Application(s)		2-4	8	16
(if regrowth occurs)			_	
D. L	[A 1'			<u> </u>
Bentgrass*	Agrostis spp.	2.4		10
First Application		2-4		16
Repeat Application(s) (if regrowth occurs)		2-4	(· · · · · · · · · · · · · · · · · · ·	16

^{*}Control of quackgrass, perennial bluegrass and bentgrass with CLETHODIM 2E may be enhanced by adding AMS at 2.5 to 4.0 lbs./acre.

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TANK MIXES

The labels for each of the herbicides recommended for tank mixing with CLETHODIM 2E are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the CLETHODIM 2E label in certain considerations. These may include, but are not limited to:

- 1. Geographic restrictions not all products are registered for use in all areas and rates may vary from one region of labeled use to another;
- 2. Crop rotation restrictions;
- 3. Applicator certification requirements;
- 4. Worker safety rules (i.e., protective clothing requirements, reentry time);
- 5. Soil type or soil characteristics;
- 6. Maximum application rate or number or applications allowed per season;
- 7. Rain free period required;
- 8. Application timing (E.G. PRE-HARVEST INTERVAL)
- 9. Do not exceed the total season rates.

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

TANK MIX APPLICATION OF CLETHODIM 2E AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Apply under favorable soil moisture and humidity, which exist a few days after rainfall or within seven days after irrigation.
- Always add the appropriate adjuvant to the spray mix at the rate recommended for each specific tank mix combination.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop
 injury as compared to either product used alone. If regrowth occurs, or an additional flush of new
 grass emerges, make a second application of CLETHODIM 2E as specified in the respective size and
 rate tables.
- Do not tank mix CLETHODIM 2E when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

MIXING INSTRUCTIONS

Use the jar test to verify mixing and compatibility properties. Maintain agitation throughout the spray application. Unsatisfactory weed control may result due to improper mixing if continuous agitation is not maintained during application.

CLETHODIM 2E Tank Mix: Add ½ the required water to the spray tank and begin agitation. Add the required amount of CLETHODIM 2E and mix thoroughly. Then add the required amount of fank thix partner and continue mixing. Finally, add the required amount of crop oil concentrate and/or entrogen fertilizer and the remaining water.

Information on Antagonism

Tank mixes of CLETHODIM 2E with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when CLETHODIM 2E is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

ALFALFA

CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR ALFALFA (REFER TO THE USE DIRECTION TABLES IN THIS LABEL FOR SPECIFIC GRASSES AND GROWTH STAGES)

DIRECTION	DIRECTION TABLES IN THIS CADLE FOR SPECIFIC GRASSES AND GROWTH STAGES)					
	APPLICATION RATES/ACRE ⁽¹⁾					
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE ⁽³⁾ (V/V)			
			GROUND	AIR		
CLETHODIM 2E	10 TO 16 fl. oz.	10 to 16 fl. oz.				
+	+	+	1%	1%		
2,4-DB ⁽⁴⁾	Refer to 2,4-DB label	Refer to 2,4-DB label				
CLETHODIM 2E	10 to 16 fl. oz					
.+	+					
PURSUIT DG ⁽⁵⁾	1.08 to 2.16 oz.		1%	1%		
or	or					
PURSUIT ⁽⁵⁾	3 to 6 fl. oz.					
CLETHODIM 2E	10 to 16 fl. oz.			_		
+	+			,		
BUCTRIL®2L ⁽⁶⁾	1.0 to 1.5 pts.	-	0.5%	0.5%		
or	or					
BUCTRIL GEL ^(6,7)	0.5 to 0.75 pt.	<u> </u>				

- If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1pt./A) in the finished spray volume.
- 4. CLETHODIM 2E plus 2,4-DB may increase the severity of crop injury when tank mixed. Alfalfa plants will generally outgrown this temporary crop injury within a few weeks.
- 5. Before using this tank mix, read and understand the PURSUIT or PRUSUIT DG labels for geographical restrictions and restrictions regarding alfalfa growth stage and type. Failure to do so can result in crop injury to alfalfa. Do no feed, graze, or harvest alfalfa for 30 days following an application or PURSUIT to alfalfa.
- 6. In the states of Washington, Oregon, Idaho, Montana, Wyoming, Colorado, Utah, Nevada and the western halves of North Dakota, South Dakota, Nebraska, and Kansas: The CLETHODIM 2E plus BUCTRIL or BUCTRIL GEL tank mix must be applied in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 2 trifoliates. Unacceptable crop injury may occur to alfalfa seedlings less than the 2 trifoliate leaf stage. CLETHODIM 2E plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 80°F and 3 days following application can result in unacceptable crop injury. In the states no listed above, apply in the fall or spring to seedling alfalfa when the majority of the field has a minimum of 4 trifoliate leaves. When alfalfa stand is uneven and conditions favor leaf burn, unacceptable crop injury may occur to alfalfa in the 2 trifoliate or smaller stage of growth. CLETHODIM 2E plus BUCTRIL or BUCTRIL GEL applications made when temperatures are expected to exceed 70°F and 3 days following application can result in unacceptable crop injury. Crop leaf burn can occur following CLETHODIM 2E blus BUCTRIL or BUCTRIL or BUCTRIL GEL application. Warm, humid conditions may enhance leaf burn. New crop growth will not be affected.
- 7. Do not apply when alfalfa is under moisture, temperature, insect or disease stress or has been stressed by other pesticide carryover or application.

CANOLA

REDUCED RATE CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR CANOLA (REFER TO THE USE DIRECTIONS TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES.)

Not for Use in California unless accompanied by a supplemental Label

	APPLICATION RATES/ACRE			
PRODUCT	ANNUAL GRASSES(1)	PERENNIAL	AMMONIUM SULFATE	
	ANNUAL GRASSES	GRASSES	GROUND	AIR
CLETHODIM 2E ⁽²⁾	4 to 5 fl. oz.			
. +	, +	_	3.0 lbs.	3.0 lbs.
LIBERTY ⁽³⁾	34 fl. oz.			

- 1. Annual grasses and sizes controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE TO CONTROL SMALL ANNUAL GRASSES table.
- 2. Do not apply CLETHODIM 2E tan mix during or after bolting or flowering or crop injury may occur.
- 3. For use only on LiberyLink® canola.

COTTON

CLETHODIM 2E TANK MIXED WITH COBRA® HERBICIDE AND MSMA

APPLIED POST DIRECTED TO COTTON

Product ⁽²⁾	Application Rates/Acre ⁽¹⁾		Crop Oil Concentrate ⁽³⁾	Comments
	Annual Grasses	Perennial Grasses	Ground	
CLETHODIM 2E (4)	6 to 8 fl. oz.	8 to 16 fl. oz.	1% v/v	Reduce broadcast
+	See the COBRA® labe	for rates to control broad	lleaf weeds and	rate in proportion to
COBRA® Herbicide	height limitations for cotton. Refer to the CLETHODIM 2E label for			the band area
+ .	weed height and species controlled.			actually treated.
MSMA	See the MSMA label for	or rates to control broadle	af weeds and height	1
(4.0 lbs./gal.)		Refer to the CLETHODIM		
or	height and species controlled.			
MSMÂ	,			
(6.6 lbs./gal.)				

- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- 4. If at the time of application, grass height is so tall that post-directed applications cannot get good coverage over the top of the grassy weeds, then poor control may result and a second (non-post directed) application of CLETHODIM 2E may be necessary.

CLETHODIM 2E TANK MIXED WITH BUCTRIL® 4EC HERBICIDE TO CONTROL EMERGED WEEDS IN BYN COTTON AS A BROADCAST APPLICATION

Product ⁽²⁾	Application Rate/Acre ⁽¹⁾	Crop Oil Concentrate ⁽³⁾	CCGamments ⁽⁷⁾
	Annual Grasses		
CLETHODIM 2E +	8 to 16 fl. oz./A	1 qt./A	See charts for grasses
BUCTRIL® 4EC	See the BUCTRIL® 4EC Herbicide	' '	controlled —————— ಎಸ್ನಾನ್ನ ——

Herbicide (4,5,6)	label for rates to control broadleaf weeds and height limitations for	
	cotton	

- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E at the recommended rate with the appropriate amount of crop oil concentrate in a non-BUCTRIL® tank mix.
- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage.
- 3. Always add a crop oil concentrate at 1 qt./A by ground in the finished spray solution.
- 4. Applications of BUCTRIL® 4 EC can be made only to cotton that has been genetically modified for crop tolerance to postemergence over-the-top applications of bromoxynil.
- 5. Do not apply the CLETHODIM 2E plus BUCTRIL® tank mix within 75 days of harvest.
- 6. Do not exceed two applications of BUCTRIL® before cotton is 12 inches tall and one application after cotton is 12 inches tall.
- 7. Use a minimum of 10 gallons of spray solution per acre.

CLETHODIM 2E TANK MIXED WITH GLYPHOSATE TO CONTROL EMERGED GRASSES IN COTTON AS A BROADCAST APPLICATION

	APPLICATION RATE/ACRE(1)		ADJUVANT		COMMENTS
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	Glyphosate formulation with built in adjuvant	Glyphosate formulation without built in adjuvant	See charts for grasses controlled
	6 to 8 fl. oz.	8 to 16 fl. oz.	Non-ionic surfactant @ 0.125 to	Crop oil. concentrate @ 1 pt./A plus	Use a minimum of 10 gals. of spray solution
CLETHODIM 2E + GLYPHOSATE	control broadlea	e label for rates to f weeds and height s for cotton.	0.25% v/v plus ammonium sulfate @ 8.5 to 17 lbs. per 100 gals. of carrier	ammonium sulfate @ 8.5 to 17 lbs. per 100 gals. of carrier	per acre.

1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E at the recommended rate with the appropriate amount of crop oil.

DRY BEAN & SUCCULENT BEAN

Not for Use in California unless accompanied by a supplemental Label

CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR DRY BEANS (REFER TO THE USE DIRECTION TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES.)

		APPLICATION RATES/ACRE ⁽¹		C C C C
PRODUCT	ANNUAL GRASSES	PERENNIAL GRASSES	CROP O CONCENER (V/V)	
			ĠŖŎŨìŲ̈́Ď ^{¸č}	AIR
CLETHODIM 2E + BASAGRAN®	8 to 10 fl. oz. + 1.0 to 2.0 pts./A	10 to 16 fl. oz. + 1 to 2 pts.	100000	1%

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- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

FLAX

Not for Use in California unless accompanied by a supplemental Label

REDUCED RATE CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR FLAX (REFER TO THE USE DIRECTION TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES)

	APPLICATION RATES/ACRE			
PRODUCT	ANNUAL GRASSES ⁽¹⁾	PERENNIAL	CROP OIL CONCENTRATE	
		GRASSES	GROUND	AIR
CLETHODIM 2E	4 to 5 fl. oz.			
+	+	-	1 pt.	1 pt.
BRONATE ADVANCED™(2,3)	11.4 fl. oz.			
CLETHODIM 2E	4 to 5 fl. oz.			
+	+	-	1 pt.	1 pt.
BRONATE®(2, 3)	0.9 pt.			
CLETHODIM 2E	4 to 5 fl. oz.			
+ , ,	+	-	1 pt.	1 pt.
BUCTRIL ^(2, 3)	1.0 pt.			
CLETHODIM 2E	4 to 5 fl. oz.			
+	+	- 1	1 pt.	1 pt.
RHONOX ^{®(2, 3)}	0.25 to 0.5 pt.		·	<u> </u>

- 1. Annual grasses and sized controlled with these tank mixtures are those that are identified in the DIRECTIONS FOR REDUCED RATE USE IN DRY BEANS, CANOLA, FLAX, MUSTARD SEED, SOYBEANS AND SUGAR BEETS USE DIRECTIONS FOR SMALL ANNUAL GRASSES table.
- 2. Do not apply CLETHODIM 2E tank mix during or after the bud stage or to ornamental flax or crop injury may occur.
- 3. Do not apply tank mixes if temperatures are expected to exceed 85°F at (or 3 days following) application or crop injury may occur.

SOYBEAN

CLETHODIM 2E TANK MIXES⁽³⁾ TO CONTROL ANNUAL GRASSES WHEN USED AS A BURNDOWN IN NO-TILL SOYBEANS

Product	Product Acre Rate ⁽¹⁾	Grass Height	Crop Oil Concentrate ⁽²⁾ +	28% N or 32% N qts./Acc, c OR 22.5 to 4.0 lbs. AMS
CLETHODIM 2E	3 fl. oz.	Foxtail 1 to 3" Fall Panicum 1 to 3"	1 qt./A	1 to 2 ats./A <i>or</i> 2.5 to 4.0 lbs. AMS
+	4 fl. oz.	Foxtail 1 to 4" Fall Panicum 1 to 4'	1 qt./A	1.to 2 qts./A or

. 32

Product	Product Acre Rate ⁽¹⁾	Grass Height	Crop Oil Concentrate ⁽²⁾ +	28% N or 32% N qts./A <i>OR</i>
2,4-D ester*	6 to 8 fl. oz. + 0.5 lb. a.i.	(See Grass Chart for grasses claimed)	1 qt./A	2.5 to 4.0 lbs. AMS 1 to 2 qts./A <i>or</i> 2.5 to 4.0 lbs. AMS

^{*2,4-}D ester should not be used where drift sensitive crops may be grown.

2. Always use a crop oil concentrate at the listed rate in the finished spray volume.

CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEANS (REFER TO THE USE DIRECTION TABLES IN THIS LABEL FOR SPECIFIC GRASSES AND GROWTH STAGES)

	APPLICATION RATES/ACRE(1)				
PRODUCT ⁽²⁾		PERENNIAL	CROP OIL CONCENTRATE(3) (V/V)		
	ANNUAL GRASSES	GRASSES	GROUND	AIR	
CLETHODIM 2E	6 to 8 fl. oz.	8 to 16 fl. oz.			
+	+ .	+	0.5 to 1%	1%	
COBRA®	12.5 fl. oz.	12.5 fl. oz.			
CLETHODIM 2E	8 to 10 fl. oz.	10 to 16 fl. oz.		1%	
- +	+	+	1%		
BASAGRAN® 4 SL	1 to 2 pts.	1 to 2 pts.			
CLETHODIM 2E					
+	6 to 8 fl. oz.	8 to 16 fl. oz.		1% ⁽⁴⁾	
Glyphosate	+	+	0.5 to 1% ⁽⁴⁾		
(For use on Roundup	0.75 to 3.0 lb. ai	0.75 to 3.0 lb ai			
Ready soybeans					
only) CLETHODIM 2E	6 to 8 fl. oz.	6 to 8 fl. oz.		 	
+ CLETHODIM 2E	+	+	0.5 to 1%	1%	
BLAZER® 2 SL	1 to 1.5 pts.	1 to 1.5 pts.	0.3 t0 170	170	
DLAZEN Z JE	6 to 8 fl. oz.			 	
CLETHODIM 2E	Refer to the	8 to 16 fl. oz. Refer			
+	Flexstar® HL label	to the Flexstar® HL	1%	1%	
FLEXSTAR® HL (6)	for specific	label for specific	1,0	1,0	
, , , , , , , , , , , , , , , , , , , ,	application rates.	application rates.			
CLETHODIM 2E	8 to 10 fl. oz.	10 to 16 fl. oz.	<u></u>		
+	+	+	1%	1%	
CLASSIC® 25 DG	0.5 to 0.75 oz.	0.5 to 0.75 oz.		,	
CLETHODIM 2E (5)	6 to 8 fl. oz.	8 to 16 fl. oz.			
+	+	+	1%	1%	
PURSUIT® 70 DG	4 fl. oz.	4 fl. oz.			
CLETHODIM 2E (5)	8 to 10 fl. oz.	-		((6)	
+	+				
COBRA®	6 to 8 fl. oz.		0.5%	1%	
+	+				
CLASSIC® 25 DG	0.5 to 0.75 oz.				
CLETHODIM 2E (5)	8 to 10 fl. oz.				
+	+			()	
COBRA®	6 to 10 fl. oz.		0.5%	190.000	
PACACDAN® 4 C	+ 1 to 1 5 nto				
BASAGRAN® 4 SL	1 to 1.5 pts.	<u> </u>			

^{1.} If regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E according to the appropriate size and rate directions.

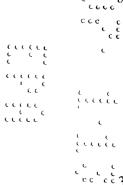
^{3.} The following products can be tank mixed with CLETHODIM 2E plus 2,4-D ester: Dual[®] Magnum, Prowl[®], Sencor[®] and Sencor[®] plus Dual[®] Magnum

		ΔΡΡΙ ΙΟΔΤΙΟΝ	RATES/ACRE(1)	
DB OD 1 (2)	ANNUAL CRASSES	PERENNIAL		ICENTRATE ⁽³⁾ (V/V)
PRODUCT ⁽²⁾	ANNUAL GRASSES	GRASSES	GROUND	AIR
CLETHODIM 2E (5)	8 to 10 fl. oz.			
+ COBRA® +	+ 6 to 10 fl. oz. +		0.5%	1%
PURSUIT® 70 DG	4 fl. oz.			
CLETHODIM 2E (5) +	8 to 10 fl. oz. +		0.5%	1%
STORM®	1.5 pts	,	0.5%	170
CLETHODIM 2E	8 to 10 fl. oz.			
RESOURCE® +	+ 4 fl. oz. +	·-	1%	1%
PURSUIT® 70 DG	4 fl. oz.			
CLETHODIM 2E	8 to 10 fl. oz.			
+ RESOURCE® +	+ 4 fl. oz. +		1%	1%
BASAGRAN®	1 pt.			
CLETHODIM 2E +	8 to 10 fl. oz. +			·
RESOURCE® +	4 fl. oz. +		1%	1%
CLASSIC®	0.5 fl. oz.			
CLETHODIM 2E +	6 to 8 fl. oz.			
+ COBRÁ® +	+ 6 fl. oz. +		0.5%	1%
RESOURCE®	4 fl. oz.			
Herbicide CLETHODIM 2E (5)	6 to 8 fl. oz.	8 to 16 fl. oz.	,	
+	+	+	1%	
FIRSTRATE® CLETHODIM 2E (5)	0.3 oz./A 6 to 8 fl. oz.	0.3 oz./A 8 to 16 fl. oz.		
+	+'	+		
COBRA®	6 to 8 fl. oz.	6 to 8 fl. oz.	1%	
+ FIRSTRATE®	+ 0.3 oz./A	+ 0.3 oz./A		,
CLETHODIM 2E (5)	6 to 8 fl. oz.			
+ RAPTOR® (1 AS)	+ 4 to 5 fl. oz./A		1%	
CLETHODIM 2E (5)	6 to 8 fl. oz.			
+ COBRA®	+ 6 to 8 fl. oz.		1%	•
+	+	~~	170	
RAPTOR® (1 AS)	4 to 5 fl. oz./A			
CLETHODIM 2E (5)	6 to 8 fl. oz./A ⁽⁷⁾ +		1 qt./A	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
+ SYNCHRONY® STS™	0.5 oz./A		- 4-//	((() () () () () () () () ()
CLETHODIM 2E (5)	6 to 8 fl. oz./A ⁽⁷⁾ +			
+ COBRA® + .	4 to 8 fl. oz. +		1 pt./A	· · · · · · · · · · · · · · · · · · ·
SYNCHRONY® STS™	0.5 oz./A	•		
		,		((((
				. (((((((((((((((((((

		APPLICATION	RATES/ACRE ⁽¹⁾			
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL	CROP OIL CONCENTRATE(3) (V/V)			
PRODUCT	ANNUAL GRASSES	GRASSES	GROUND	AIR		
·CLETHODIM 2E (5)	6 to 8 fl. oz.	,				
+	+		1 qt./A			
RESOURCE®	4 to 12 fl. oz./A					
_	8 to 10 fl. oz.					
CLETHODIM 2E (5)	+					
+	Refer to the		1%			
FRONTROW™	FRONTROW™ label					
	for use rates					
	6 to 8 fl. oz.	8 to 16 fl. oz.				
CLETHODIM 2E	+	+				
4	0.3 oz.	0.3 oz.	1	•		
FIRSTRATE	+	+	1%			
+	Refer to the	Refer to the	1,0			
FLEXSTAR HL ⁽⁶⁾	FLEXSTAR HL label	FLEXSTAR HL label		•		
, , , , , , , , , , , , , , , , , , , ,	for specific	for specific				
	application rates	application rates.				

- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- -3.—Always-use-a-crop-oil concentrate-at the-listed rate (but not less than 1 pt./A) in the finished spray volume.
- 4. The addition of 2.5 lb. of ammonium sulfate is required when CLETHODIM 2E is tank mixed with Glyphosate. If the Glyphosate formulation has a stand alone built in adjuvant, add 0.125% v/v nonionic surfactant in place of crop oil concentrate. If the glyphosate formulation does not have a built in adjuvant system, add 0.5 to 1% crop oil concentrate for ground application and 1% v/v for aerial application.
- 5. The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, or 32% N) is recommended when CLETHODIM 2E is tank mixed with PURSUIT®, RESOURCE®, GALAXY™, STORM®, FIRSTRATE®, SYNCHRONY®, RAPTOR®, FRONTROW™, COBRA® plus CLASSIC®, COBRA® plus BASAGRAN®, COBRA® plus PURSUIT®, COBRA® plus FIRSTRATE®, COBRA® plus SYNCHRONY®, and COBRA® plus RAPTOR®. An equivalent amount (2.5 to 4.0 lbs./A) of adjuvants are to be added in addition to the crop oil concentrate.
- 6. Refer to FLEXSTAR® HL label for geographic and rotational restrictions.
- 7. Annual grasses and sizes controlled with these tank mixtures are those which are identified in the DIRECTIONS FOR USE IN SOYBEANS AT A REDUCED RATE table.

REDUCED RATE CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEAN (REFER TO TABLE FOR REDUCED RATE USE IN DRY BEAN, CANOLA, FLAX, MUSTARD SEED, SOYBEAN AND SUGAR BEET USE DIRECTIONS FOR SMALL ANNUAL GRASSES FOR SPECIFIC GRASSES AND GROWTH STATES)



	APPLICATION RATES/ACRE ⁽¹⁾						
PRODUCT	ANNUAL GRASSES ⁽²⁾ PERENNIAL GRASSE		CROP OI CONCENTRA (V/V)				
			GROUND	AIR			
CLETHODIM 2E	4 to 8 fl. oz.						
+	+	-	1%	1%			
FIRSTRATE	0.3 oz						
CLETHODIM 2E	CLETHODIM 2E 4 to 6 fl. oz						
+	+	-	1%	1%			
PURSUIT 70 DG	1.44 oz.						

- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Annual grasses and sizes controlled with these tank mixes are those that are identified in the DIRECTIONS FOR USE DIRECTIONS FOR SMALL ANNUAL GRASSES table.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- 4. The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N, or 32%N) is required when CLETHODIM 2E is tank mixed at reduce rate. An equivalent amount (2.5 to 4.0 lbs./A) of spray grade ammonium sulfate (AMS) may be added in place of liquid fertilizer. Fertilizer adjuvants are to be added in addition to the crop oil concentrate.

USE DIRECTIONS FOR ROUNDUP READY VOUNTEER CORN CONTROL IN ROUNDUP READY SOYBEANS WITH-CLETHODIM 2E HERBICIDE TANK MIX

Roundup Ready Volunteer Corn Height (inches)	CLETHODIM 2E Rate fl. oz./A	Glyphosate ⁽¹⁾ rate for formulations with built in adjuvant	Adjuvant
<12	4	1.0 to 2.0 lb. ai./A	Non-ionic surfactant @ 0.125
12 to 18	5	(Approximately equivalent to 22 to	to 0.25% v/v plus ammonium
18 to 24	6	44 fl. oz./A of ROUNDUP weather MAX)	sulfate @ 8.5 to 17 lbs. per 100 gals/ of carrier

Roundup Ready Volunteer Corn Height (inches)	CLETHODIM 2E Rate fl. oz./A	Glyphosate ⁽¹⁾ rate for formulations without built in adjuvant	Adjuvant
<12	4	Up to 2.0 lb. ai./A	Crop oil concentrate @ 1 pt./A
12 to 18	5	(Equivalent to 32 to 64 fl. oz./A of	plus ammonium sulfate @ 8.5
18 to 24	6 .	ROUNDUP Original)	to 17 lbs. per 100 gals. of carrier

1. Glyphosate formulation must be labeled for use on Roundup Ready soybeans.

PEANUT (Including PERENNIAL)

CLETHODIM 2E TANK MIXES WITH BROADLEAF HERBICIDES FOR PEANUT (REFER TO THE USE DIRECTION TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES.)

	APPLICATION RATES/ACRE ⁽¹⁾						
PRODUCT ⁽²⁾	ANNUAL GRASSES ⁽²⁾	PERENNIAL GRASSES	CROP OIL CONCENTRATE ⁽³⁾ (V/V)				
			GROUND	AIR			
CLETHODIM 2E + BASAGRAN®	8 to 10 fl. oz. + 1.0 to 2.0 pts./A	-	1%	1%			
CLETHODIM 2E + ULTRA BLAZER	8 to 10 fl. oz. + 0.5 to 1.5 pts.	-	1%	1%			
CLETHODIM 2E + STORM	8 to 10 fl. oz. + 1.5 pts.	-	1%	1%			

- 1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate directions.
- 2. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

USE DIRECTIONS FOR GRASS SUPPRESSION FOR HARVEST EFFICIENCY IN PEANUT WITH CLETHODIM 2E

WEED STAGE	RATE FL. OZ./ ACRE	HIGH RATE
Up to and including grasses in the seed head stage	16	32
	Up to and including grasses in the seed head	WEED STAGE FL. OZ./ ACRE Up to and including 16 grasses in the seed head

Add a crop oil concentrate at 1 qt./A by ground to the finished spray volume.

SUGAR BEET

CLETHODIM 2E TANK MIXED WITH SPUR® (clopyralid) APPLIED TO SUGAR BEETS
(Refer to the Use Direction tables for specific grasses and growth stages)

Product ⁽²⁾	Application	n Rate/Acre ⁽¹⁾	Crop Oil Con	centrate ⁽³⁾
	Annual Grasses	Perennial Grasses	Ground	Αίřεč
CLETHODIM 2E	6 to 8 fl. oz.	8 to 16 fl. oz.	1 1 % v	/v
SPUR®	See the SPUR® label f height and species con	or rates. Refer to the C trolled.	LETHODIM 2E lab	el for weed

1. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix herbicide), according to the appropriate size and rate

directionss.

- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

CLETHODIM 2E TANK MIXED WITH BETAMIX® OR BETANEX® APPLIED TO SUGAR BEETS

Product ⁽²⁾	Weeds	Controlled	Weed Height	Application Rate/Acre ⁽¹⁾
	Common Name	Scientific Name		
CLETHODIM 2E (3)	Barnyardgrass	Echinochioa crus- galli	1-3"	
+ BETAMIX®	Foxtail Foxtail Millet	Setaria spp. Setaria italica	1-3" 1-3"	8 fl. oz.
OR	Wild Oats Wild Proso Millet	Avena fatua Panicum milaceum	1-3"	
BETANEX®	·		See the BETAMIX® and rates to control broadditives are recomme	oadleaf weeds. No

- 1. Do not use crop oil concentrate. No additives are recommended in the tank mix.
- 2. Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not ——recommended-in-these situations.
- 3. If grass regrowth occurs or an additional flush of new grass emerges, make a second application of CLETHODIM 2E at full label rate with appropriate rate of crop oil concentrate.

CLETHODIM 2E PLUS BETANEX OR BETAMIX TANK MIX FOR THREE SEQUENTIAL APPLICATIONS FOR ANNUAL GRASS CONTROL (MICRO-RATE APPLICATION)

	APPLICATION RATES/ACRE ⁽¹⁾						
PRODUCT	ANNUAL GRASSES	GRASSES CONTROLLED (inches)	METHYLATED SEED OIL ⁽²⁾ (V/V)				
			GROUND	AIR			
CLETHODIM 2E + BETANEX + BETAMIX	2 to 3 fl. oz. + 8 - 12 fl. oz. ⁽³⁾ + 8 - 12 fl. oz. ⁽³⁾	Green Foxtail (1-2) Yellow Foxtail (1-2) Barnyardgrass (1-2) Wild Oat (1-2) Volunteer Cereals (1-2)	1.5%	1.5%			

- 1. Broadleaf weed control may be reduced when grass populations are tall or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.
- 2. Always use a methylated seed oil at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- 3. Use 8 fl. oz./A rate when sugar beet are in the cotyledon to 4 leaf stage. Rate can be increased up to 12 fl. oz./A when the smallest sugar beet plants in the field are in the 4 leaf stage of larger.

USE DIRECTIONS FOR USE FOR MICRO-RATE APPLICATIONS TO SUGAR BEETS

Multiple micro-rate applications of CLETHODIM 2E in tank mixtures will reduce rates of BETANEX or BETAMIX and methylated seed oils may be applied by air or ground equipment to sugar beets to control early germinating annual grasses listed above. The rate of BETANEX or BETAMIX must not exceed 0.12 lb. ai/A (broadcast application) when in combination with these spray adjuvants. Note that maximum rate allowed varies depending on crop growth stage. The use of wetting agents or spray adjuvants with conventional rates (0.73 to 1.22 lb. ai/A) or multiple low rate (0.24 to 0.73 lb. ai/A) applications of BETNEX or BETAMIX is prohibited on the BETANEX or BETAMIX master label. Favorable climatic conditions (good conditions for plant growth and development) are essential for adequate weed control. All use precautions and restrictions on the BETANEX and BETAMIX master labels must be followed.

DIRECTIONS FOR USING MICRO-RATE MULTIPLE APPLICATIONS OF CLETHODIM 2E TANK MIXES

Apply CLETHODIM 2E in broadcast applications only at a rate of 2 to 3 fl. oz./A in tank mixtures with either BETANEX or BETAMIX following the directions for use on the tank mix partner label. A minimum of three sequential applications of 2 fl. oz./A or a minimum of 2 sequential applications of 3 fl. oz./A should be utilized for CLETHODIM 2E tank mixtures. A minimum of 3 sequential applications of BETANEX or BETAMIX should be used. Accurate timing is essential; make initial application immediately after weeds emerge, and make repeat applications on 5 to 7 day intervals. If weed control is not adequate due to climatic conditions, spray coverage or other factors, return to conventional application rates of CLETHODIM 2E (6 to 8 fl. oz./A) and add rates of BETANEX or BETAMIX in tank mixtures with CLETHODIM 2E, a spray adjuvant is not recommended.

USE PRECAUTIONS FOR MICRO-RATE APPLICATIONS: (SEE CLETHODIM 2E, BETANEX and BETAMIX MASTER LABEL FOR FURTHER USE PRECAUTIONS.)

Not all weeds will be adequately controlled, even with favorable climatic conditions. Conventional rate of CLETHODIM 2E, BETANEX or BETAMIX and/or hand labor may be required if multiple micro-rate applications do not adequately control weeds. Plugging of spray nozzles may be encountered due to the potential for formation of a precipitate in the spray solution that is often associated with micro-rate applications. Albuagh, Inc. will not be responsible for any nozzle plugging that may occur with the use of multiple micro-rate applications. Methylated seed oils must not be added if the BETANEX or BETAMIX rate exceeds 0.12 lb. ai/A broadcast, as the addition of methylated seed oils could increase the possibility of crop injury at dosage rates greater than 0.12 lb. ai/A.

GROUND APPLICATION

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 10 gals. and a maximum of 20 gals. of spray solution per acre. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

AERIAL APPLICATION

Use of sufficient spray volumes is essential to ensure complete coverage. Use a minimum of 5 gals. and a maximum of 15 gals. of spray solution per acre.

TANK MIX APPLICATION OF CLETHODIM 2E AND FUNGICIDES FOR CONTROL OF GRASS WEEDS AND DISEASES IN SUGAR BEET

	APPLICATION RATES/ACRE(1)				
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE ⁽³⁾ (V/V)		
CLETHODIM 2E	6 to 8 fl. oz.	8 to 16 fl. oz.			
+	+	+	1%		
EMINENT®	13 fl. oz.	13 fl. oz.			

- 1. If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix fungicide) according to the appropriate size and rate directions.
- 2. Refer to CLETHODIM 2E and fungicide label for rates and weeds and diseases controlled.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.

TANK MIX APPLICATION OF CLETHODIM 2E AND INSECTICIDES FOR THE CONTROL OF GRASS WEEDS AND INSECTS IN ALFALFA, COTTON, MINT, PEANUTS (Including PERENNIAL), SOYBEANS & SUNFLOWER

	APPI	ICATION RATES/AC	RE ⁽¹⁾			CRC	PS		
PRODUCT ^{(2).} —	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ⁽³⁾	Alfalfa ⁽⁴⁾	Cotton	Mint ^(4,5)	Peanut	Soybean	Sunflower
CLETHODIM 2E	6 to 8 fl. oz	8 to 16 fl. oz.	· · · · · · · · · · · · · · · · · · ·						
+ ORTHENE® 75 S or	0.33 to 1.33 lbs.	0.33 to 1.33 lbs	1%		×	x	x		
ORTHENE 97	0.25 to 1.0 lb.	0.25 to 1.0 lb.							
CLETHODIM 2E + ORTHENE 90 S ⁽⁶⁾	6 to 8 fl. oz. + 0.25 to 1 lb	8 to 16 fl. oz. + 0.25 to 1 lb.	1%		X	x	x	×	
CLETHODIM 2E + DANITOL® 2.4 EC	6 to 8 fl. oz. + 10 2/3 to 16 fl. oz	8 to 16 fl. oz. + 10 2/3 to 16 fl.oz	1%		×		×		
CLETHODIM 2E + ASANA XL®	6 to 8 fl. oz. + Refer to ASANA XL label	8 to 16 fl. oz. + Refer to ASANA XL label	1%					1	×
CLETHODIM 2E + WARRIOR®	6 to 8 fl. oz. + Refer to WARRIOR label	8 to 16 fl. oz. + Refer to WARRIOR label	1%						x
CLETHODIM 2E + WARRIOR	10 to 16 fl. oz. ⁽⁷⁾ + Refer to WARRIOR label	10 to 16 fl. oz. + Refer to WARRIOR label	1%	x		C t t . 1		((r c c
CLETHODIM 2E + BAYTHROID®	10 to 16 fl. oz. ⁽⁷⁾ + Refer to BAYTHROID label	10 to 16 fl. oz. + Refer to BAYTHROID label	1%	×				, C	. ((
CLETHODIM 2E +	10 to 16 fl. oz. ⁽⁷⁾	10 to 16 fl. oz. +	1%	×	1 (i	C C		 	4

	APPLICATION RATES/ACRE ⁽¹⁾		RE ⁽¹⁾	E ⁽¹⁾ CROPS					
PRODUCT ⁽²⁾	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONCENTRATE (V/V) ⁽³⁾	Alfalfa ⁽⁴⁾	Cotton	Mint ^(4,5)	Peanut	Soybean	Sunflower
DIMETHOATE®	Refer to DIMETHOATE label	Refer to DIMETHOATE label							
CLETHODIM 2E + LORSBAN®	10 to 16 fl. oz. ⁽⁷⁾ + Refer to LORSBAN label	10 to 16 fl. oz. + Refer to LORSBAN label	1 to 2 pt. ⁽⁸⁾	x					
CLETHODIM 2E + POUNCE®	10 to 16 fl. oz. ⁽⁷⁾ + Refer to POUNCE label	10 to 16 fl. oz. + Refer to POUNCE label	1%	x					

- 1. If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of CLETHODIM 2E alone (without a tank mix insecticide) according to the appropriate size and rate directions.
- 2. Refer to CLETHODIM 2E and insecticide label for rates, weeds, and insects controlled.
- 3. Always use a crop oil concentrate at the listed rate (but not less than 1 pt./A) in the finished spray volume.
- 4. Certain insecticides may cause temporary phytotoxic symptoms on alfalfa and mint foliage.
- 5. The CLETHODIM 2E rate should be 6 to 8 fl. oz./A for annual grass control in baby mint, minimum of 8 fl. oz./A for annual grass control in established mint and 8 to 16 fl. oz./A for perennial grass control. Crop oil concentrate should be added at the rate of 1.0 to 2.0 pts./A.
- 6. Insecticide tank mix use with ORTHENE® 90 S in soybeans is permitted only in a state having an approved Section 24(c) registration for ORTHENE® 90 S use in soybeans.
- 7. The CLETHODIM 2E rate should be 6 to 8 fl. oz./A for annual grass control in seedling alfalfa.
- 8. For the CLETHODIM 2E plus LORSBAN tank mix, reduce the adjuvant rate down to 1.0 pt./A when the LORSBAN rate is 1.0 pt./A or higher.

DIRECTIONS FOR USE IN FALLOW LAND

CLETHODIM 2E may be used to control annual and perennial grasses in land that has been left fallow the previous year and other non-producing agricultural areas. Apply CLETHODIM 2E at 6 to 8 fl. oz./A for annual grasses and 8 to 16 fl. oz./A for perennial grasses. When both grass and broadleaf weeds are the target pest, CLETHODIM 2E may be tank mixed with 2,4-D ester, Albaugh DICAMBA SG or BANVEL® SGF Herbicide for broad-spectrum control. When both annual and perennial grasses occur in the same field, use a minimum of 8 fl. oz./A CLETHODIM 2E rate.

- Use a minimum spray volume of 15 gals./A for ground applications and 5 gals./A for aerial applications.
- Apply only to actively growing grasses when the first grass reaches the recommended weed keight as specified by the Use Directions for Annual and Perennial Grasses section of this label.
- Annual grasses which emerge after the CLETHODIM 2E application will not be controlled, and a second application may be necessary.
- The control of perennial grasses may require more than one application in non-tilled areas.
- Do not plant any crop for 30 days after application unless clethodim is registered for use in that crop.
- Do not apply to grasses that have tillered, formed seedheads or exceeded recommended growth stage.
- Do not use flood jet nozzles.
- Do not apply to drought-stressed grasses.
- Do not mow area for two weeks prior to or after CLETHODIM 2E application.

CLETHODIM 2E IN TANK MIXES TO CONTROL ANNUAL AND PERENNIAL GRASSES IN FALLOW LAND

Product	Application Rates/Acre ⁽¹⁾		Crop Oil Co	oncentrate ⁽²⁾
	Annual Grasses	Perennial Grasses	Ground	Air
CLETHODIM 2E +	6 to 8 fl. oz.	8 to 16 fl. oz.	1	% v/v
2,4-D ester	0.5 lb./A		7	
or Albaugh DICAMBA SG or BANVEL [®] SGF	See the Albaugh DICAMBA SG or BANVEL® SGF label for rates.			

- 1. Refer to CLETHODIM 2E label for weed height and species control. Review the Albaugh DICAMBA SG, BANVEL® SGF Herbicide and 2,4-D labels for crop restrictions, use rates and weeds controlled.
- 2. Always use a crop oil concentrate or methylated seed oil containing at least 15% emulsifier at the listed rate (but not less than 1 pt./A) in the finished spray volume.

		RATE	
GRASS SPECIES	WEED STAGE	FL. OZ./ ACRE	HIGH RATE
Annual and perennial grasses that exceed height-claimed-for-control on height charts above.	Up to and including grasses in the seed head stage	12	16

CLETHODIM 2E FOR THE CONTROL AND/OR SUPPRESSION OF TALL FESCUE IN NATIVE PRAIRIE WARM-SEASON GRASS RESTORATION PROJECTS

Product	Product Rates	Grass Weeds Controlled/Suppressed		Grass Weeds Controlled/Suppressed W		Weed Stages
		Common Name	Scientific Name			
CLETHODIM 2E	10 to 12 fl. oz./A	Tall Fescue	Festuca arundinacea	4 to 6 inches (40 to 60% green-up)		
Adjuvant: CLETHO	Adjuvant: CLETHODIM 25 must be applied with crop oil concentrate at 1 of /A plus a spray grade ammonium					

Adjuvant: CLETHODIM 2E must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add CLETHODIM 2E, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

- Burn or mow fields a minimum of 3 weeks prior to application to remove excess crop residue. Apply in the spring, at 40 to 60% green-up, prior to emergence of warm-season grasses. Do not mow affection 2 weeks after the CLETHODIM 2E application.
- Apply in a minimum of 15 to 20 gals. of water per acre at a spray pressure of 40 to 60 PSI at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.
- Apply only to fields that have warm-season grasses established for two years. Applications of CLETHODIM 2E to emerged warm-season grasses may cause injury. Do not apply to warm-season grasses grown for seed.
- Do not graze treated fields or feed treated forage and or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use in that crop.
- NOTE: CLETHODIM 2E applications are most effective if applied when average nighttime temperatures

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are consistently greater than or equal to 47°F.

CLETHODIM 2E FOR THE SUPPRESSION OF TALL FESCUE SEED-HEADS IN NON-PRODUCING AGRICULTURAL AREAS

Product	Product Rate	Suppression Applic		
CLETHODIM 2E	1 1/2 to 2 fl. oz./A	Tall Fescue Seed-Heads	50 to 90% Tall	
	Festuca arundinacea		Fescue green-up	
Adjuvant: CLETHODIM 2E must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium				
cultate at 2 E to 4 lb	c /A Decommended M	living Order: Thoroughly miv carry grade ammor	nium culfata in water	

Adjuvant: CLETHODIM 2E must be applied with crop oil concentrate at 1 qt./A, plus a spray grade ammonium sulfate at 2.5 to 4 lbs./A. Recommended Mixing Order: Thoroughly mix spray grade ammonium sulfate in water, add CLETHODIM 2E, then add crop oil concentrate.

SPECIAL APPLICATION INSTRUCTIONS/PRECAUTIONS

- Apply at 50 to 90% tall fescue green-up.
- Use the higher CLETHODIM 2E rate if less tall fescue green matter is present.
- Do not mow area for two weeks after the CLETHODIM 2E application.
- Apply in a minimum of 15 to 20 gals. of water per acre at a spray pressure of 40 to 60 psi at the nozzle. Apply using flat fan or hollow cone nozzles. Do not use flood nozzles.
- 2,4-D ester may be added to this tank mix for broadleaf control (see the 2,4-D ester label for weeds controlled).
- Do not graze treated fields or feed treated forage and/or hay to livestock. Do not plant any crop for 30 days after application, unless clethodim is registered for use in that crop.

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Apply under favorable soil moisture and humidity which exist a few days after rainfall or within seven days after irrigation.
- Tank mix applications may sometimes result in reduced grass control. If regrowth occurs, or an additional flush of new grass emerges, make a second application of CLETHODIM 2E, as specified in the respective size and rate tables.
- Do not tank mix CLETHODIM 2E when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.
- This tank mix may be applied postemergence to ROUNDUP READY soybeans up through the full flowering stage. Do not apply less than 60 days before harvest.
- Avoid contact with foliage, green stems, or fruit crops, or any desirable plant and trees, other than soybeans with the ROUNDUP READY gene as severe injury or destruction will result.
- Do not allow the CLETHODIM 2E plus ROUNDUP to mist, drip, drift or splash onto desireable vegetation as minute quantities of the tank mix can cause severe damage or destruction to the crops, plants or other areas on which treatment was not intended. The likelihood of injury occurring from drift of this product is greatest when winds are gusty or in excess of 5 miles per hour. Even under lesser wind velocities, avoid conditions that allow spray drift to occur such as combinations of spray pressure and nozzle type that will result in fine particles (mist) that are likely to drift.

DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses, CLETHODIM 2E can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, packside plantings, and structure landscapes.

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IMPORTANT

CLETHODIM 2E successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to CLETHODIM 2E at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of CLETHODIM 2E have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for CLETHODIM 2E applications:

ORNAMENTAL TREES

IAL IKEES
Scientific Name
Alnus oregona
Fraxinus spp.
Tilia spp.
Betula pendula
Betula nigra
Betula papyrifera
Malus halliana
Cornus, florida
Labumum anagyroides
Acer spp.
Morus alba
Quercus spp.
Elaeagnus angustifolia
Cercis canadensis
Liquidambar styraciflua

GARDEN FLOWERS AND PLANTS

Common Name	Scientific Name
Ageratum	Ageratum spp.
Alyssum*, Sweet	Lobularia maritime
Asparagus fern	Asparagus setaceus
Bleeding heart	Dicentra spectabilis
Cast iron plant	Aspidistra alatior
Chrysanthemum	Chrysanthemum spp.
Cinquefoil	Potentilla spp.
Coleus	Coleus spp.
Coralbells	Heuchera sanguinea
Cranesbill	Geranium spp.
Dahlia	Dahlia spp.
Daisy, Trailing African	Osteospermum fruticosum
Daylily	Hemerocallis spp.
Dusty miller	Senecio cinerarie
Euonymus	Euonymus spp.
Gazania	Gazania spp.
Geranium, house	Pelargonium hortorum
Heather, False	Cuphea hyssopifolia
Hosta	Hosta fortunei
Iris	Iris spp.

Common Name	Coiontifia Nama
Common Name	Scientific Name
Jasmine tobacco	Nicotiana alata
Loosestrife	Lythrum salicaria
Marigold	Tagetes spp.
Partridgeberry	Mitchella rapens
Petunia*	Petunia hybride
Phlox	Phlox spp.
Pinks	Dianthus spp.
Portulaca	Portulaca grandiflora
Salvia	Salvia spp.
Saxifrage	Saxifraga spp.
Sedum	Sedum spp.
Selloum	Philodendron selloum
Snapdragon*	Antirrhinum majus
Sweet flag	Acorus gramineus
Tickseed	Coreopsis grandiflora
Touch-me-not	Impatiens spp.
Verbena	Verbena spp.
Violet	Viola spp.
Yarrow, common	Achillea millefolium
Zinnia	Zinnia elegans

^{*}Slight foliage or flower speckling has been observed on these species.

GROUND COVERS

Common Name	Scientific Name
Bugleweed, carpet Ajuga reptans	
Ivy, English	Hedera helix
Japanese spurge	Pachysandra terminalis
Lilyturf	Liriope muscari
Moneywort	Lysimachia nummularia
Mondo grass, white	Ophiopogon jaburan
Mondo grass, dwarf	Ophiopogon japonicus
Periwinkle, common	Vinca minor

SHRUBS

3111003			
Common Name	Scientific Name		
Abelia	Abelia spp.		
Anise, purple	Illicium floridenum		
Aucuba	Aucuba spp.		
Azalea*	Rhododendron spp.		
Bamboo	Bambusa spp.		
Barberry, Japanese	Berberis thunbargii		
Barberry, Magellan	Berberis buxifolia		
Baryberry	Myrica pensylvanica		
Bottlebrush	Callistemon citrinus		
Boxwood, Common	Buxus sempervirens		
Camellia, Common	Camellia japonica		
Candytuft	Iberis sempervirens		
Cleyera	Cleyera japonica		
Coralberry	Ardisia crenata		

Common Name	Scientific Name
Crape myrtle	Lagerstroemia indica
Coyote brush	Baccharis pilularis
Fig, creeping	Ficus pumila
Gardenia	Gardenia spp.
Holly	Ilex spp.
Honeysuckle	Lonicera pileate
Indian hawthorn	Raphiolepis indica
Jasmine	Jasminum spp.
Jasmine, Asiatic	Trachelospermum
	asiaticum
Jasmine, Star	Trachelospermum
	jasminoides
Juniper	Juniperus spp.
Lantana	Lantana spp.
Nandina *, Bamboo Heavenly	Nandinia domestica
Oleander, common	Nerium oleander
Oregon grape	Mahonia aquifolium
Photina	Photina spp.
Pittosporum	Pittosporum spp.
Podocarpus	Podocarpus spp.
Privet	Liqustrum spp.
Pyracantha	Pyracantha spp.
Rhododendron	Rhododendron spp.
Rose	Spirea bumalda
Sweet olive	Osmanthus fregrens
Viburnum	Viburnum tinus
Wisteria	Wisteria spp.
Yellow sage/Shrub Verbena	Lantana camere

^{*}Slight foliage or flower speckling has been observed on these species.

USE DIRECTIONS FOR ANNUAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./acre) ⁽¹⁾	High Rate ⁽²⁾
Barnyardgrass	Echinochloa crus-galli	2-8	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	8	16
Brome				(((
California	Bromus carinatus	2-6	8	, , , 16
Cheatgrass	Bromus secalinus	2-6	8	1.5 .
Downy	Bromus tectorum	2-6	3	ી6
Ripgut	Bromus diandrus	2-6	, 8	16
Canarygrass	Phalaris canariensis	1-4	8.(,,,	16
Crabgrass			6.0	cere
Hairy	Digitaria adscendens	2-6**	8, , , ,	,16
Large	Digitaria sanguinalis	2-6**	8	1.5
Smooth	Digitaria ischaemum	2-6**	8	16

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Grass Species	Scientific Name	Weed* Height (inches)	Rate (fl. oz./acre) ⁽¹⁾	High Rate ⁽²⁾
Southern	Digitaria ciliaris	2-6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2-6**	8	16
Fall Panicum	Panicum dichotomiflorum	2-8	8	16
Field Sandbur	Cenchrus incertus	2-6	8	16
Foxtail				
Giant	Setaria faberi	2-12	8	16
Green	Setaria viridis	2-8	8	16
Yellow	Setaria glauca	2-8	8	16
Foxtail Barley	Hordeum jubatum	2-6	8	16
Goosegrass	Eleusine indica	2-6**	8	16
Itchgrass	Rottboellia exaltata	2-6	8	16
Junglerice	Echinochloa colona	2-6	8	16
Lovegrass (Stinkgrass)	Eragrostis cilianensis	2-6	8	16
Rabbitsfootgrass	Polypogon monspeliensis	1-4	8	16
Red Rice	Oryza sativa	1-3	8	16
Ryegrass				
Hardy	Lolium remotum	2-6	8	16
Italian	Lolium multiflorum	2-6	8	16
Seedling Johnsongrass	Sorghum halepense	4-10	8	16
Shattercane	Sorghum bicolor	6-18	8	16
Southwestern Cupgrass	Eriochlola gracillis	2-6	8	16
Sprangletop	-	,		
Amazon	Leptochloa panicoides	2-6	8	16
Bearded	Leptochloa fascicularis	2-6	8	16
Mexican	Leptochloa uninervia	2-6	8	16
Red	Leptochloa filiformis	2-6	8	16
Texas Panicum	Panicum texanum	2-6	8	16
Volunteer Cereals				
Barley	Hordeum vulgare	2-6	8	16
Oats	Avena sativa	2-6	8	16
Rye	Secale cereale	2-6	8	16
Wheat	Triticum aestivum	2-6	8 .	16
Volunteer Corn	Zea mays	4-12	6	8
Volunteer Corn	Zea mays	12-24	····	16
Volunteer Grain	Sorghum bicolor	8-12	8	16
Sorghum				
Wild Oats	Aven fatua	2-6	8	16
Wild Proso Millet	Panicum miliaceum	2-10	8	16
Witchgrass	Panicum capillare	2-8	. 8	., 16
Woolly Cupgrass	Eriochloa villosa	2-8	8	° 1.5°
	en 3-leaf stage and tillering			L C CALL

^{*}Generally occurs between 3-leaf stage and tillering.

^{**}Length of lateral growth.

^{(1) 8} fl. oz./A = approximately 0.2 fl. oz./1000 sq. ft.

^{(2) 16} fl. oz./A = approximately 0.4 fl. oz./1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

USE DIRECTIONS FOR ANNUAL BLUEGRASS CONTROL WITH CLETHODIM 2E IN ORNAMENTALS

GRASS SPECIES	WEED STAGE	RATE	HIGH RATE			
		(fl. oz./ACRE)				
Annual Bluegrass (Poa annua)	To 4-Leaf	6	16			
Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after						
irrigation. Grass needs to be actively growing at time of application(s).						
Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.						
Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.						
Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. $(0.25\% \text{ v/v})$.						

USE DIRECTIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

Grass Species	Scientific Name	Weed Height (inches)	Rate (fl. oz./acre) ⁽¹⁾	High Rate
Bermudagrass	Cynodon dactylon			
First Application		3 (or up to 6" runners)	8	16
Repeat Application(s) _(if_regrowth_occurs)		3 (or up to 6" runners)	8	16
Quackgrass	Elytrigia repens			
First Application		4-8	8	16
Repeat Application(s) (if regrowth occurs)		4-8	8	16
Rhizome Johnsongrass	Sorghum halepense			
First Application		12-24	8	16
Repeat Application(s) (if regrowth occurs)		6-18	6	8
Wirestem Muhly	Muhlenbergia frondonsa			
First Application		4-8	8	16
Repeat Application(s) (if regrowth occurs)		4-8	. 8	16

^{(1) 8} fl. oz./A = approximately 0.2 fl. oz./1000 sq. ft. 16 fl. oz./A = approximately 0.4 fl. oz./1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

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The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ALBAUGH, INC., its Supplemental Distributors, or the Geller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

ALBAUGH, INC., its Supplemental Distributors and the Seller warrant that this product conforms to the chemical

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